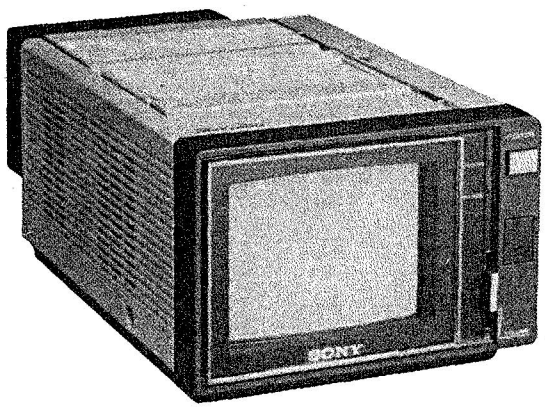
PVM-6030ME
AC-1200

SERVICE MANUAL

AEP Model
UK Model
Chassis No. SCC-562A-A



SPECIFICATIONS

Colour system	PAL or SECAM, selectable
Picture tube	Trinitron tube Approx. 14.8 cm (6 inches), 55-degree deflection (Approx. 13.0 cm picture measured diagonally)
Resolution	180 TV lines
Colour temperature	9300°K
Inputs	VIDEO IN (BNC connector) 1.0 V (p-p), 75 ohms, unbalanced, sync negative AUDIO IN (mini jack) −5 dBs, 47 k ohms or more
Outputs	VIDEO OUT (BNC connector) 1.0 V (p-p), 75 ohms, unbalanced, sync negative AUDIO OUT (mini jack)
Linearity	V: 9% H: 5%
Convergence	Central area: within 0.4 mm Outside of central area: within 0.8 mm
Audio power	0.6 W
Brightness	more than 28 FL
Power requirements	220–240 V ac, 50 Hz with supplied AC-1200 ac power adaptor 12 V dc, with optional Sony NP-1 battery pack 12/24 V car battery with optional Sony DCC-16AE car battery cord
Power consumption	27 W ac with AC-1200 ac power adaptor 18 W dc (in 12–24 V operation)
Dimensions	Approx. 190 × 153 × 298 mm ($7\frac{1}{2} \times 6\frac{1}{8} \times 11\frac{3}{4}$ inches) incl. projecting parts and controls
Weight	Approx. 3.9 kg (8 lb 10 oz) excl. AC-1200, accessories and batteries
Accessories supplied	AC power adaptor AC-1200 (1) Earphone (1)
Optional accessories	Battery pack NP-1 Car battery cord DCC-16AE AC power adaptor for charging the battery pack AC-F1E, AC-F1UB Car battery charger CBC-330

Your dealer may not handle some of the above listed optional accessories. Please ask the dealer for detailed information about the optional accessories available in your country.

While the information given is true at the time of printing, small production changes in the course of our company's policy of improvement through research, and design might not necessarily be indicated in the specifications. We would ask you to check with your appointed Sony dealer if clarification on any point is required.

MICROFILM

TRINITRON®
COLOR VIDEO MONITOR
SONY®

MON

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

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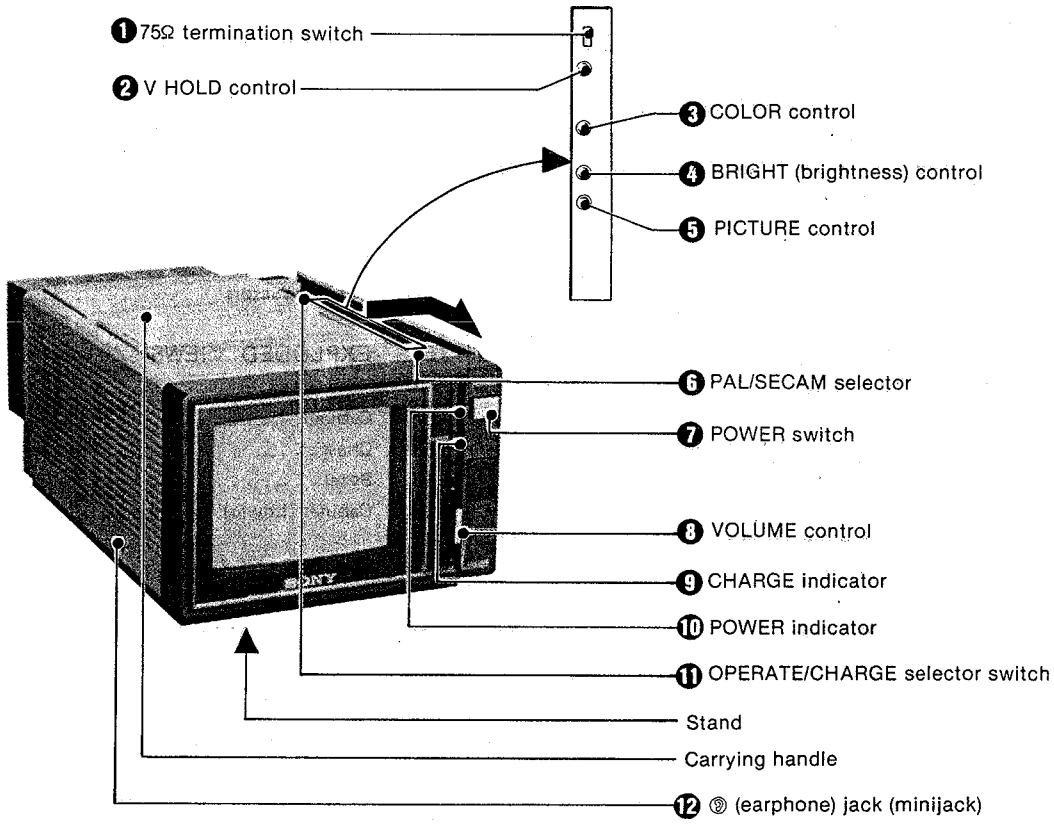
SECTION 1
GENERAL

1-1. FEATURES

- Portable light-weight monitor convenient for outdoor use
- Selectable colour system: PAL or SECAM
- Energy-saving quick-start picture system.
- Three different power sources; household ac, rechargeable battery, or 12 V–24 V car battery.
- Charging function of an NP-1 rechargeable battery pack

1-2. LOCATION AND FUNCTION OF PARTS AND CONTROLS

Front view



❶ 75Ω termination switch
When the monitor is used singly, or is the last of looped chain, set the switch to ON. When another monitor is connected to the VIDEO OUT connector, set the switch to OFF.

❷ V HOLD control
If the picture rolls vertically, adjust this control.

❸ COLOR contorl
This adjusts the colour intensity of the picture. Turn clockwise to make the picture vivid, or counterclockwise to make it pale.

❹ BRIGHT (brightness) control
This adjusts the picture brightness. Turn clockwise to make the picture bright, or counterclockwise to make it dark.

❺ PICTURE control
This adjusts the contrast, colour intensity, and brightness simultaneously in the proper ratio. Turn clockwise to increase picture contrast, or counterclockwise to decrease it.

❻ PAL/SECAM selector switch
Select the colour system by setting this to PAL or SECAM.

❼ POWER switch
Depress to turn on the monitor. Press again to turn the monitor off.

❽ VOLUME control
Slide up or down to regulate the volume.

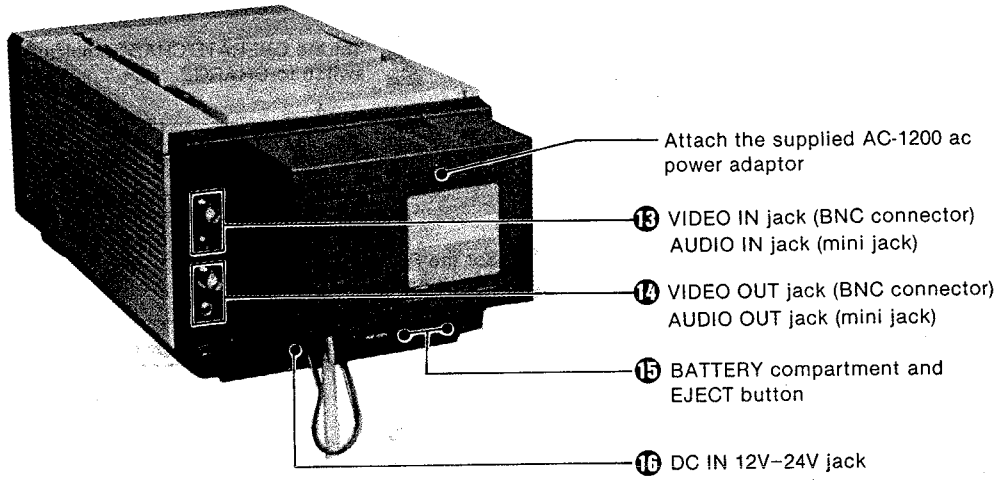
❾ CHARGE indicator
This lights up in red when the OPERATE/CHARGE selector is set to the CHARGE position.

❿ POWER indicator
This lights up in green when the power is turned on.

⓫ OPERATE/CHARGE selector switch
Normally keep this in the OPERATE position; when the battery pack is to be charged, set to the CHARGE position.

⓬ (earphone) jack (minijack)
Use for listening with a supplied earphone.
When an earphone is connected, the loudspeaker will be disconnected. Adjust the volume with the volume control.

Rear view


Attach the supplied AC-1200 ac power adaptor
⑬ VIDEO IN jack (BNC connector)
AUDIO IN jack (mini jack)
⑭ VIDEO OUT jack (BNC connector)
AUDIO OUT jack (mini jack)
⑮ BATTERY compartment and EJECT button
⑯ DC IN 12V–24V jack

⑬ VIDEO IN jack (BNC connector)
AUDIO IN jack (mini jack)
Connect to the video/audio output of a video cassette recorder, another monitor (for loop-through connection), a colour camera, or a TV tuner.

⑭ VIDEO OUT jack (BNC connector)
AUDIO OUT jack (mini jack)
Connect to the video/audio input of another monitor (for loop-through connection), or a video cassette recorder.

⑮ BATTERY compartment and EJECT button
Insert an NP-1 battery pack (optional) here. Press the EJECT button to remove the battery pack.

⑯ DC IN 12V–24V jack
Connect the supplied AC-1200 ac power adaptor for house current operation, or the DCC-16AE car battery cord.

1-3. POWER SOURCES

Battery life

At normal temperatures, you can view the playback of the video tape recorder or monitor the camera recording for about 80 to 90 minutes continuously.

When the battery is exhausted, the power is automatically turned off and the green power indicator will blink. Press the POWER switch and replace the exhausted battery pack with a charged one or use another power source.

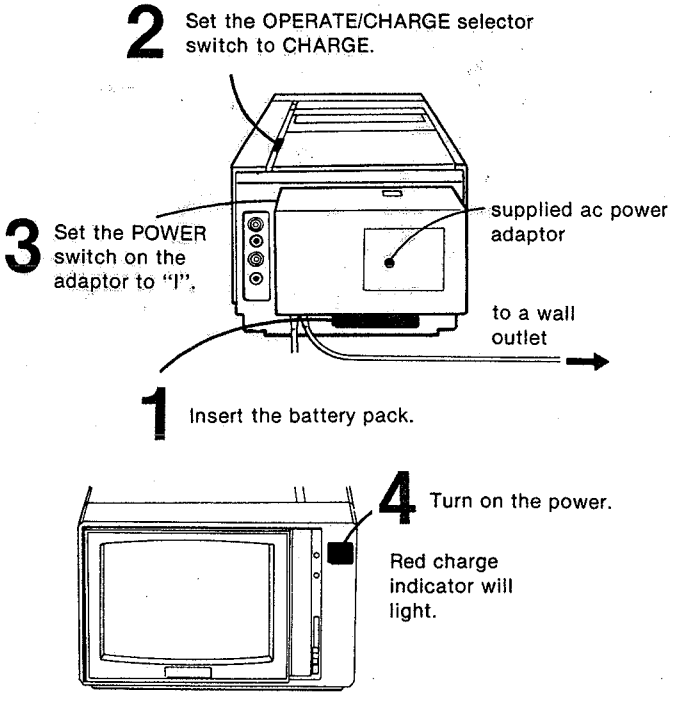
Charging the battery pack

Use the supplied ac power adaptor.

The charging time is about 10 hours at normal temperatures.

We recommend the Sony AC-F1E or AC-F1UB ac power adaptor or CBC-330 car battery charger (optional) for high-speed charging.

See page 8 for the ac power adaptor connections.

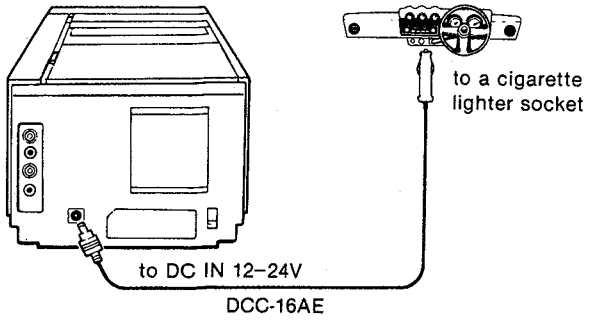

2 Set the OPERATE/CHARGE selector switch to CHARGE.
3 Set the POWER switch on the adaptor to "I".
supplied ac power adaptor
to a wall outlet
1 Insert the battery pack.
4 Turn on the power.
Red charge indicator will light.

VEHICLE BATTERY OPERATION

Use the Sony DCC-16AE car battery cord (optional) for a 12/24 V vehicle battery.

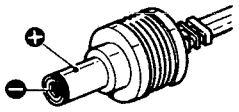
For further details, read the instructions with the car battery cord.

- The DCC-16AE is designed for use with a 12/24 V negative ground system.



Note

- If a car battery cord not manufactured by Sony is used, a fuse must be installed in the battery cord and the polarity of the plug must be as illustrated.



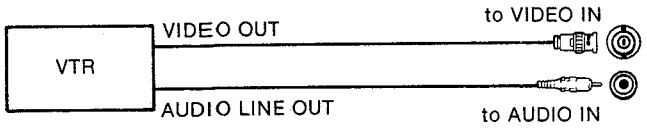
Polarity of the plug of Sony car battery cord

- If you turn on the car ignition while the monitor is powered by the car battery, the picture may disappear and the power indicator blink because the monitor battery protect circuit has activated. In this case, set the POWER switch to OFF, and wait more than 8 seconds with the car ignition left on before setting the POWER switch to ON again.

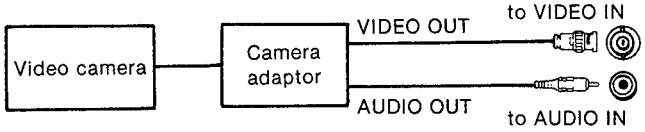
1-4. SYSTEM CONNECTION

Before operation, make sure that the following switches are properly set.
OPERATE/CHARGE: OPERATE
PAL/SECAM: proper setting

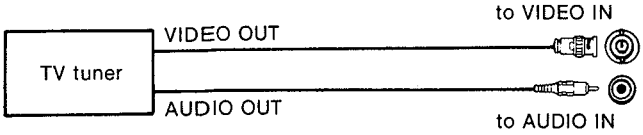
CONNECTING A VIDEO TAPE RECORDER



CONNECTING A VIDEO CAMERA

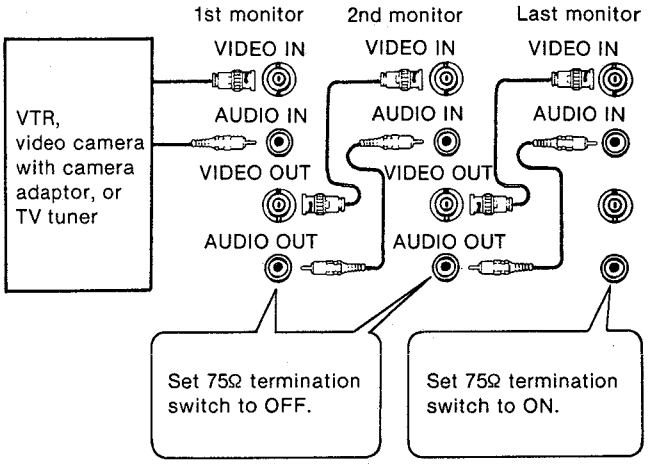


CONNECTING A TV TUNER



MULTIPLE MONITOR CONNECTION

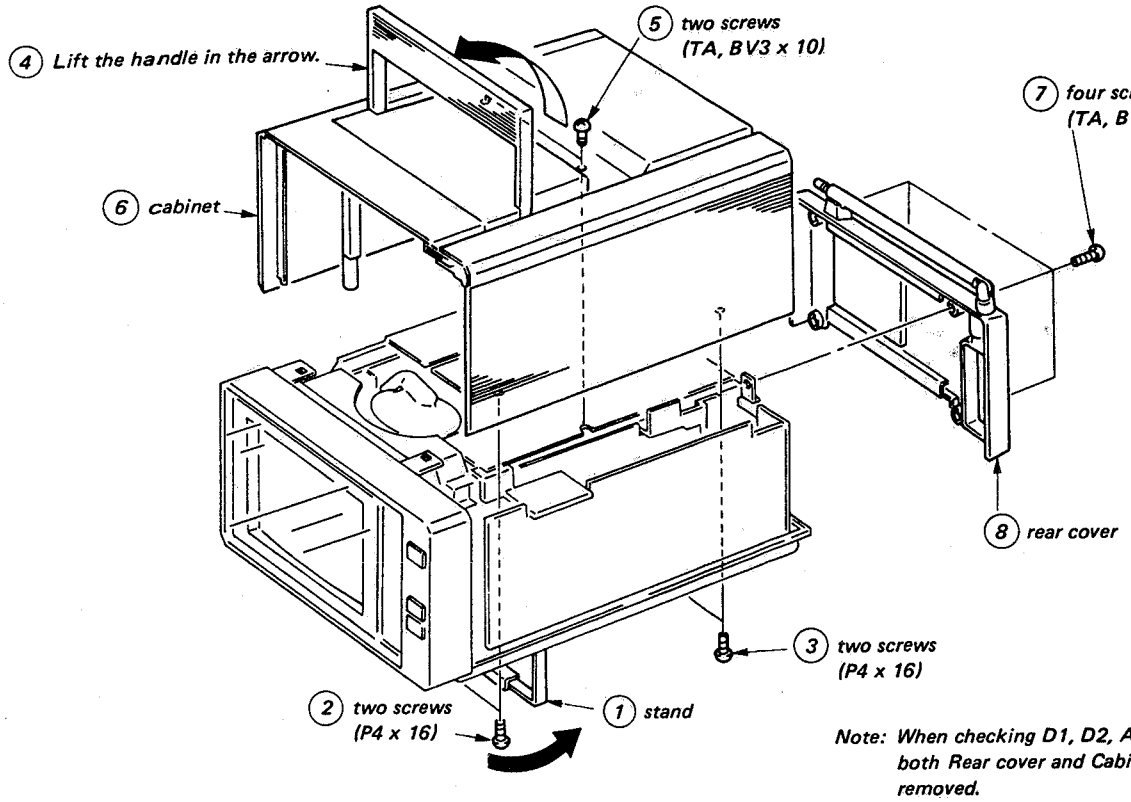
Up to 10 monitors may be connected. Set the 75Ω termination switch of the last monitor to ON and that of the other monitors to OFF.



SECTION 2
DISASSEMBLY AND REPLACEMENT

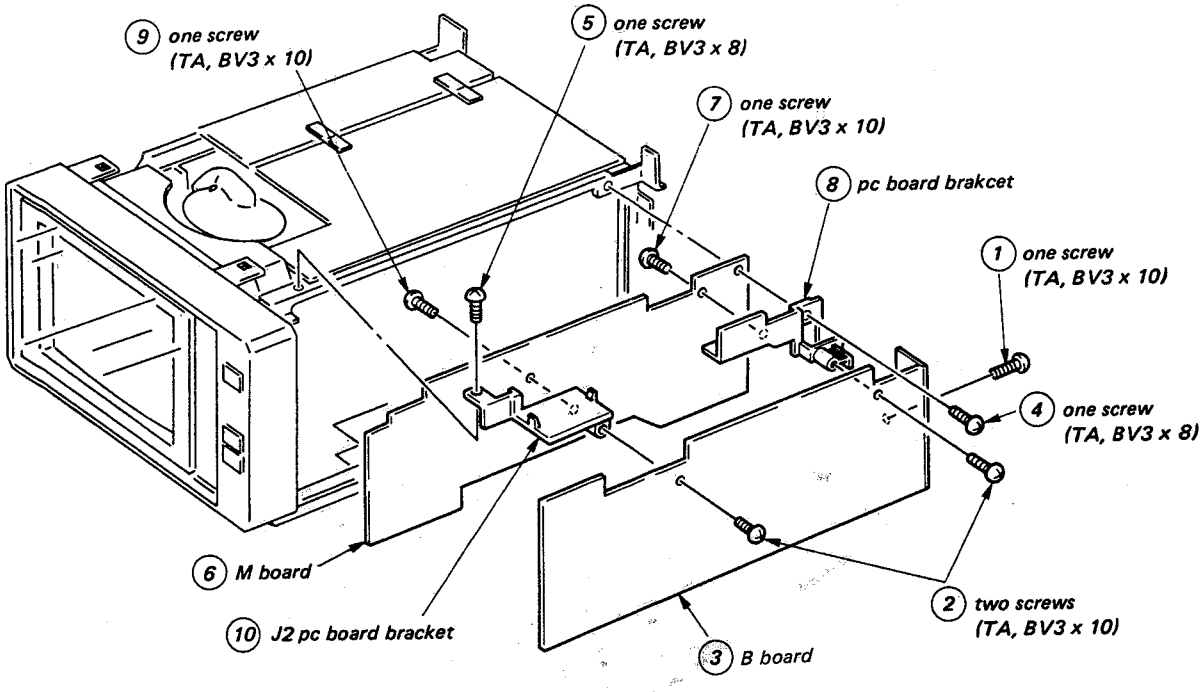
Note: Follow the disassembly procedure in the numerical order given.

2-1. CABINET AND REAR COVER REMOVAL

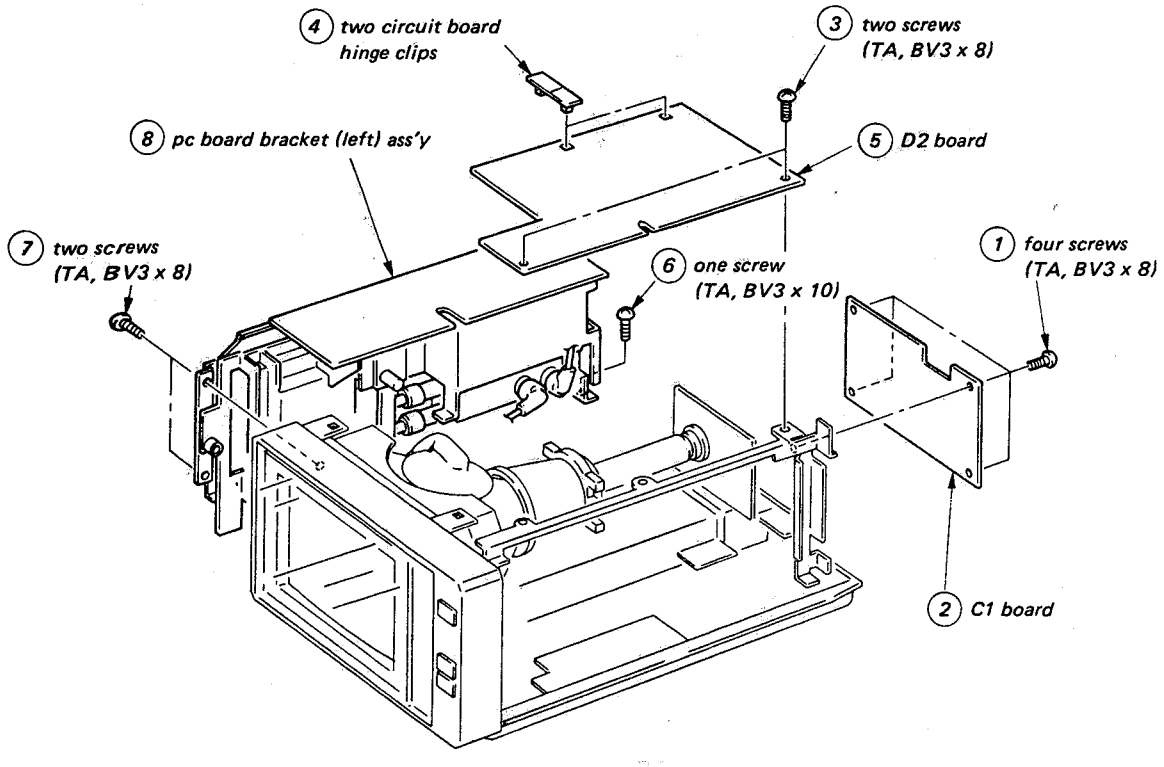

(4) Lift the handle in the arrow.
(5) two screws (TA, BV3 x 10)
(7) four screws (TA, BV3 x 10)
(6) cabinet
(8) rear cover
(3) two screws (P4 x 16)
(2) two screws (P4 x 16)
(1) stand

Note: When checking D1, D2, A and C1 boards, both Rear cover and Cabinet should be removed.

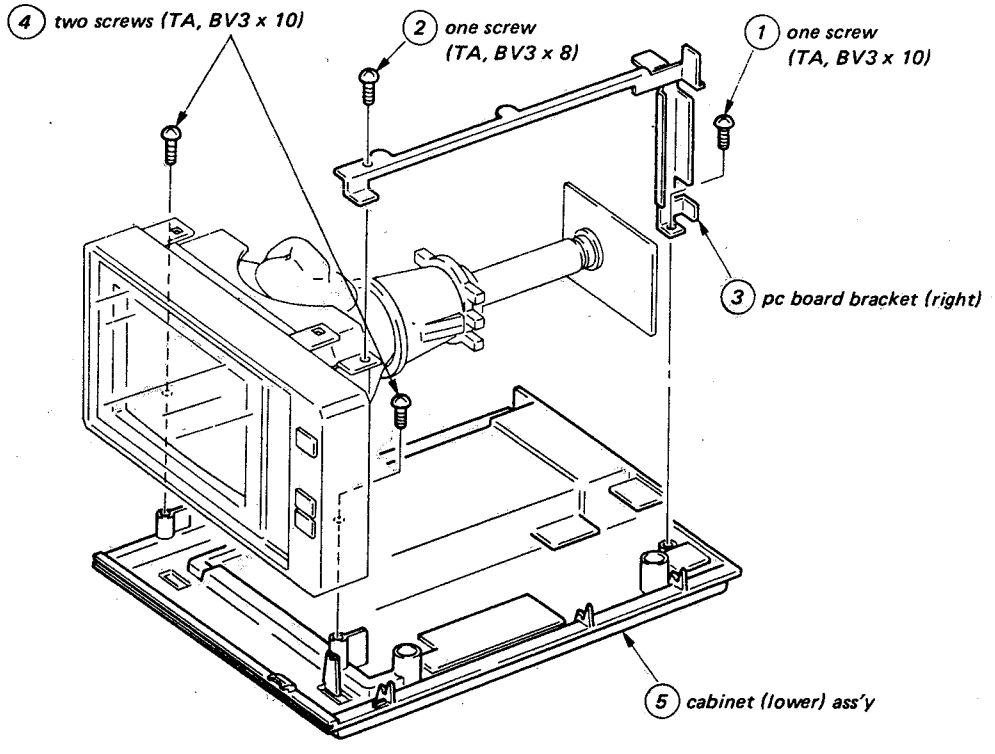
2-2. CHECKING FOR B AND M BOARDS


(9) one screw (TA, BV3 x 10)
(5) one screw (TA, BV3 x 8)
(7) one screw (TA, BV3 x 10)
(8) pc board brakcet
(1) one screw (TA, BV3 x 10)
(4) one screw (TA, BV3 x 8)
(6) M board
(10) J2 pc board bracket
(2) two screws (TA, BV3 x 10)
(3) B board

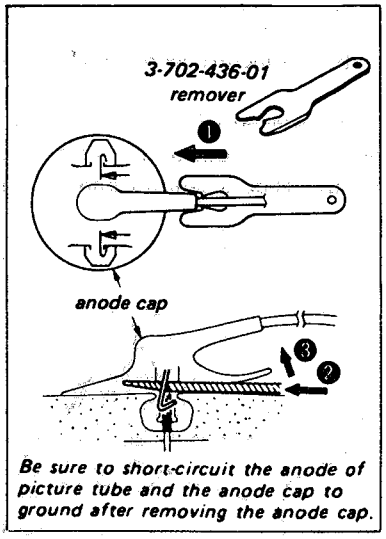
2-3. PC BOARD BRACKET (LEFT) ASSEMBLY REMOVAL

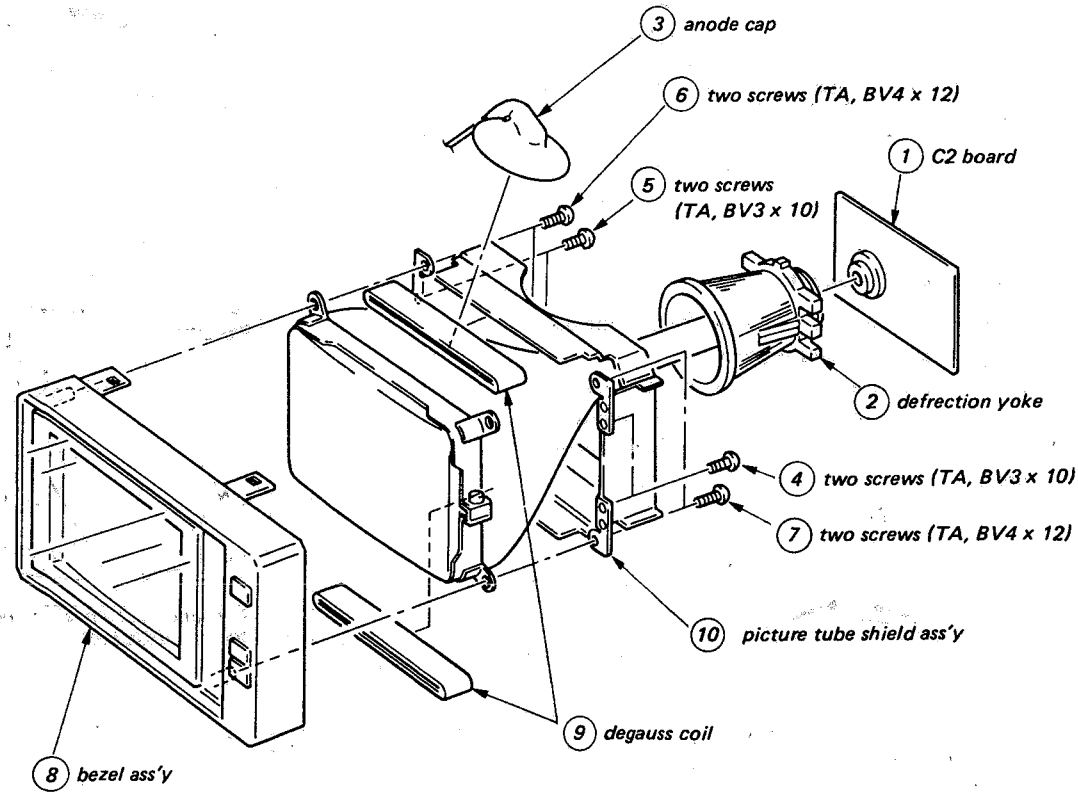

4 two circuit board hinge clips
3 two screws (TA, BV3 x 8)
8 pc board bracket (left) ass'y
5 D2 board
7 two screws (TA, BV3 x 8)
6 one screw (TA, BV3 x 10)
1 four screws (TA, BV3 x 8)
2 C1 board

2-4. CABINET (LOWER) ASSEMBLY REMOVAL



2-5. PICTURE TUBE REMOVAL


3-702-436-01
remover
anode cap
Be sure to short-circuit the anode of picture tube and the anode cap to ground after removing the anode cap.


3 anode cap
6 two screws (TA, BV4 x 12)
1 C2 board
5 two screws (TA, BV3 x 10)
2 defrection yoke
4 two screws (TA, BV3 x 10)
7 two screws (TA, BV4 x 12)
10 picture tube shield ass'y
9 degauss coil
8 bezel ass'y

SECTION 3
ADJUSTMENTS

3-1. SETUP ADJUSTMENTS

3-1-1. Focus Adjustment

1 Receive a broadcast.
2 Set for optimum picture with PICTURE and BRIGHT control.
3 Synchronize both horizontal and vertical completely.
4 Adjust with focus control for best focus over the entire picture. (Focus control knob is on focus assy block.)

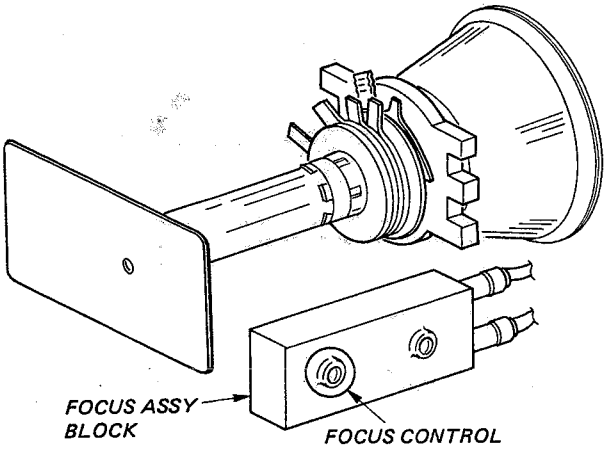


Fig. 1

3-1-2. Landing Coarse Adjustment

1 All white signal turn the red and blue BKG controls (RV711, 713) so that the raster is green.
2 Pull DY back, and coarse adjustment the purity magnet so that the green raster is in the center of the picture.
3 Shift DY forward and coarse adjust so that the entire picture is green.
4 Lightly secure DY, keeping it level.

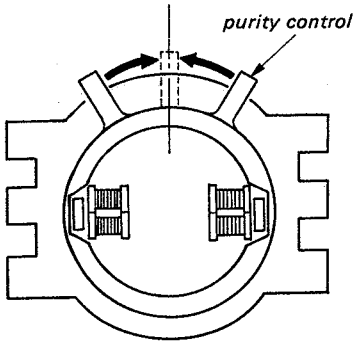
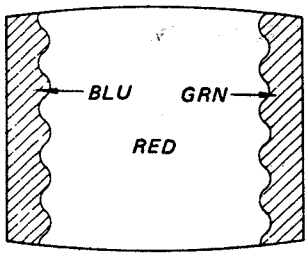


Fig. 2



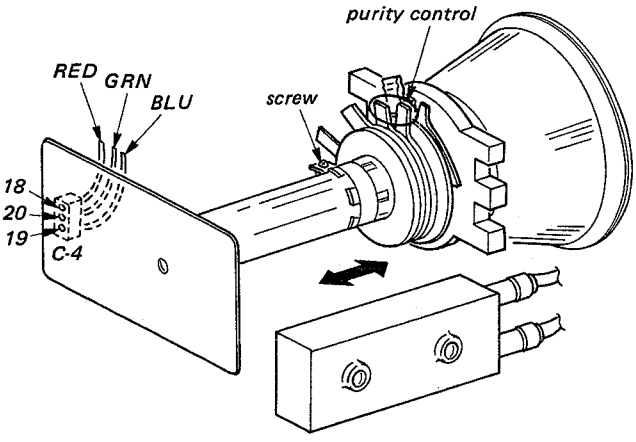


Fig. 3

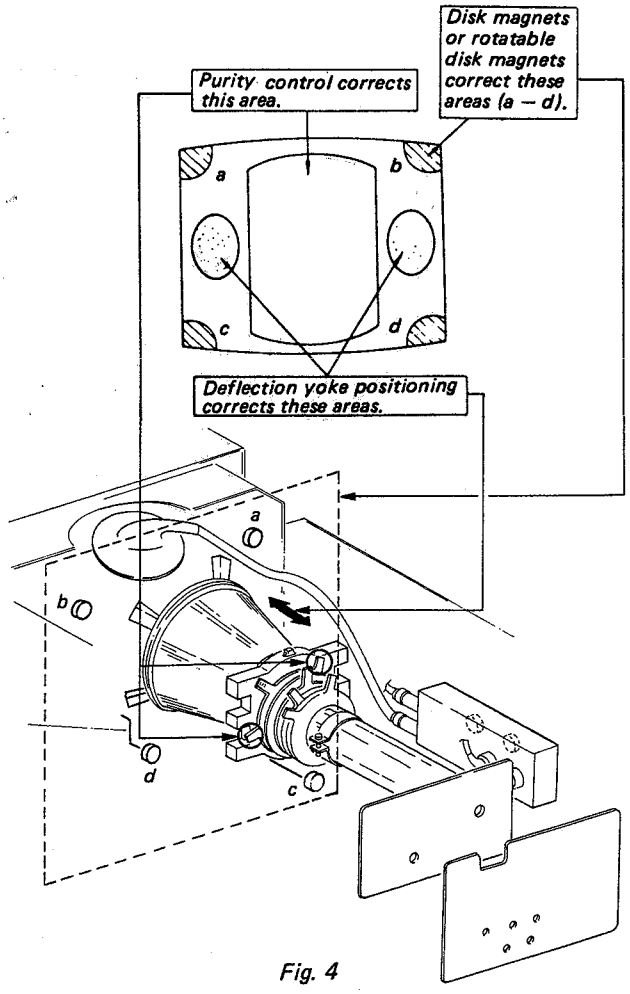


Fig. 4

3-1-3. Static Convergence Adjustment

1 Receive a dot signal. All other conditions standard.
2 Adjust the horizontal convergence in the center of the picture with H. STAT control.
3 Adjust the vertical convergence in the center of the picture with V. STAT magnet.
The V. STAT magnet should be moved symmetrically left-right. (Fig. 5)

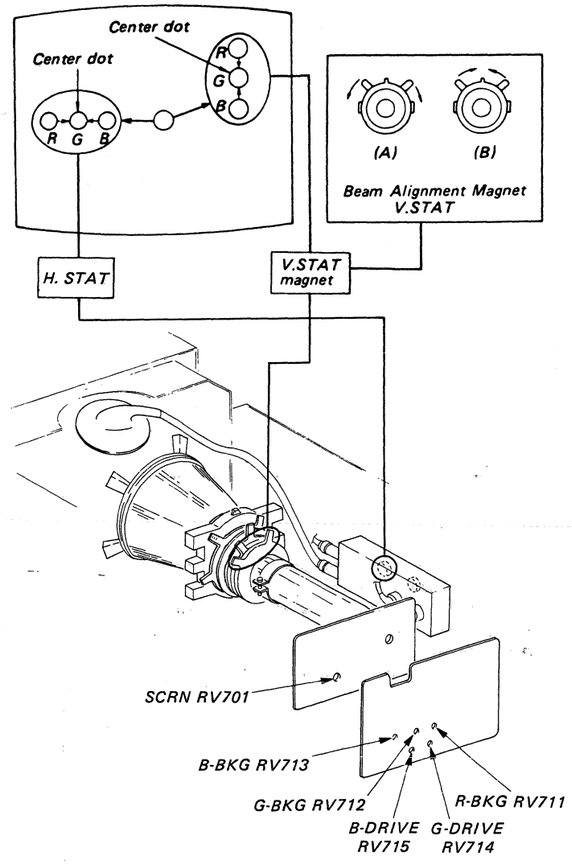


Fig. 5

4. If blue dot does not coincide with red and green dots, perform following steps.
1) HMC
Move BMC magnet to correct insufficient H. static convergence. (Fig. 6)
2) VMC
Rotate BMC magnet to correct insufficient V. static convergence. (Fig. 6)
In either case, repeat Beam Landing Adjustment.

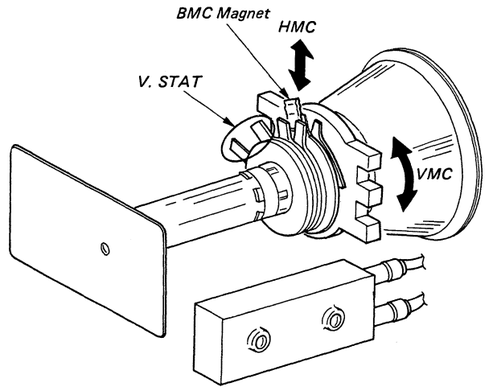


Fig. 6

3-1-4. Landing Adjustment

1 Check that static convergence adjustment has been performed.
2 Receive a all white signal and set picture and brightness at maximum.
3 Adjust the purity magnet for picture center landing.
4 Move DY forward and back to adjust peripheral area landing.
5 When using a magnifying glass when adjusting, perform left, right, center and corner DY fine tuning, purity fine tuning, and attach disk magnet as shown in Fig. 4.

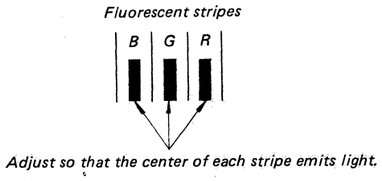


Fig. 7

3-1-5. Convergence Adjustment

1 After performing static convergence and landing adjustments, adjust DY if there is any misconvergence in the peripheral area.
2 Adjust DY horizontal slant and tighten the bracket.
3 After adjusting, lock the purity magnet, V. STAT magnet and BMC magnet. (Fig. 8)

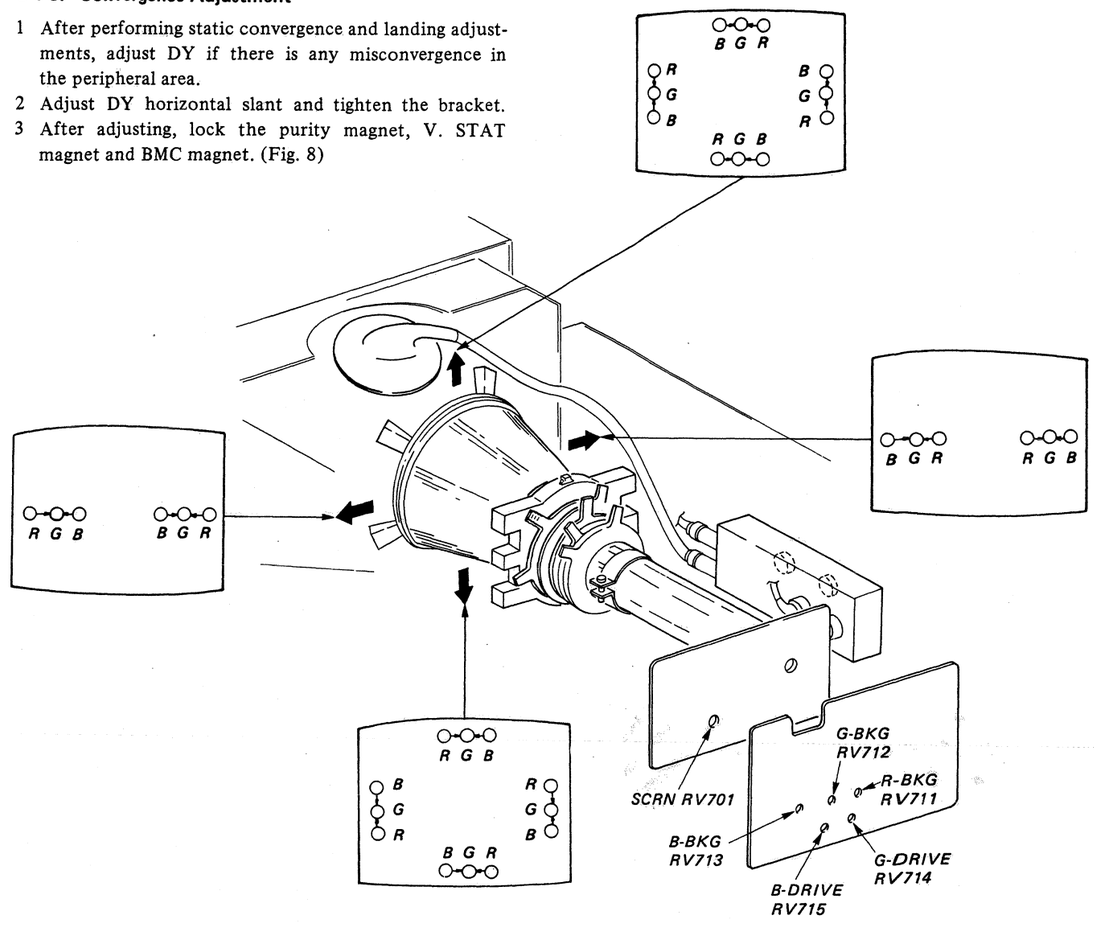


Fig. 8

3-1-6. White Balance Adjustment

(Preparations)
Receive a broadcast, and turn the COLOR control knob fully counterclockwise to get a B/W picture.

1) White Balance Near Cut-off

1 Turn each drive control (RV714, 715) fully clockwise.
2 Set each cut-off control (RV711, 712, 713) at mechanical center.
3 Turn the BRIGHT and PICTURE knobs fully counterclockwise.
4 Turn the screen control (RV701) clockwise, and set at the location where any one of the red, green or blue rasters begins to glow faintly.
5 Turn the cut-off controls for the other colors to get white balance.

2) White Balance at White Peak

1 Turn BRIGHT and PICTURE knobs fully clockwise and conform white balance.
2 If white is not balanced, for example, if blue is too strong, turn the blue drive control so that it darkens, and get white balance. Do the same for any other strong color.
When white does not balance near cut-off and at white peak, repeat the adjustments 2-3 times.

3-2. CIRCUIT ADJUSTMENTS

Note: (1) TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Digital multimeter
3. Color-bar/pattern generator
4. Regulated dc power supply

(2) INPUT SIGNAL

When making these adjustments, supply a cross-hatch, color-bar, or an off-air signal.

(3) CONTROL SETTINGS

Controls and switch should be set as follows when making checks and adjustments unless otherwise noted.

PICTURE control, HUE control, SHARPNESS control, BRIGHT control, COLOR control — Set for best picture

(4) These adjustment should be percormed with rated power supply voltage, unless otherwise noted.

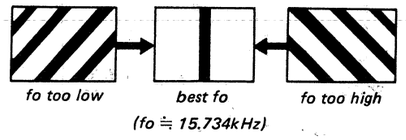
(5) CIRCUIT ADJUSTMENTS

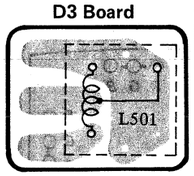
Adjustment	Circuit Board	Page
H FREQ V CENT PIN CORRECTION V SIZE V LIN H SIZE LOW V H CENT	D2	15–16
SUB BRT PHASE SUB CONT SUB COLOR SUB HUE	B	17–18
28V LIMIT	M	19

3-2-1. D2 BOARD ADJUSTMENTS

Horizontal frequency (H FREQ)

1) *Receive a broadcast.*
2) *Ground Q285 collector with an electrolytic capacitor (33μF/16V).*
3) *Turn L501 on the D3 board, and obtain a picture like the one shown in the middle below.*



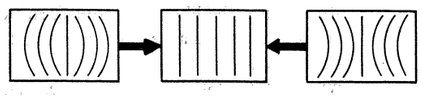


Vertical Center (V CENT)

1) *Receive a broadcast.*
2) *To adjust upward, adjust with the bridge combination of R581, R582, and to adjust downward, use the bridge combination of R579, R580, so that the picture position is optimum.*
3) *The correction amount gets larger as each resistor value decreases.*

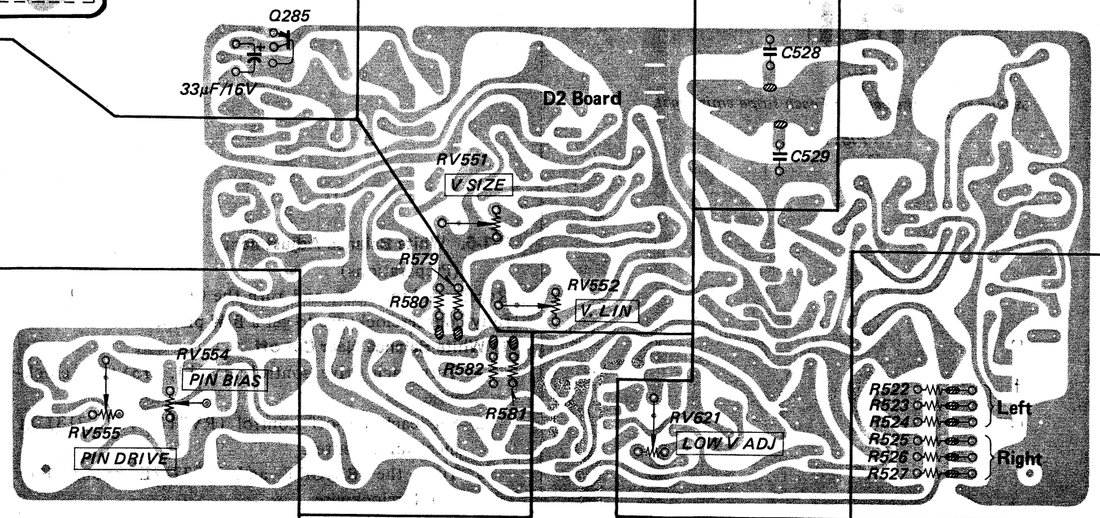
Pin Correction Adjustment

1) *Receive a broadcast.*
2) *Turn RV554 (PIN BIAS) and adjust for optimum horizontal amplitude around the center of the picture.*
3) *Turn RV555 (PIN DRIVE) to obtain a picture like the one shown below.*



Vertical Size (V SIZE), Vertical Linearity (V LIN) Adjustments

1) *Receive a broadcast.*
2) *Adjust vertical sync (V HOLD).*
3) *Turn RV551 (V SIZE) and adjust for optimum vertical amplitude.*
4) *Turn RV552 (V LIN) and adjust for optimum vertical linearity.*



Horizontal Size (H SIZE)

1) *Receive a broadcast.*
2) *Adjust with the C528, C529 pattern bridge combination for optimum horizontal amplitude.*

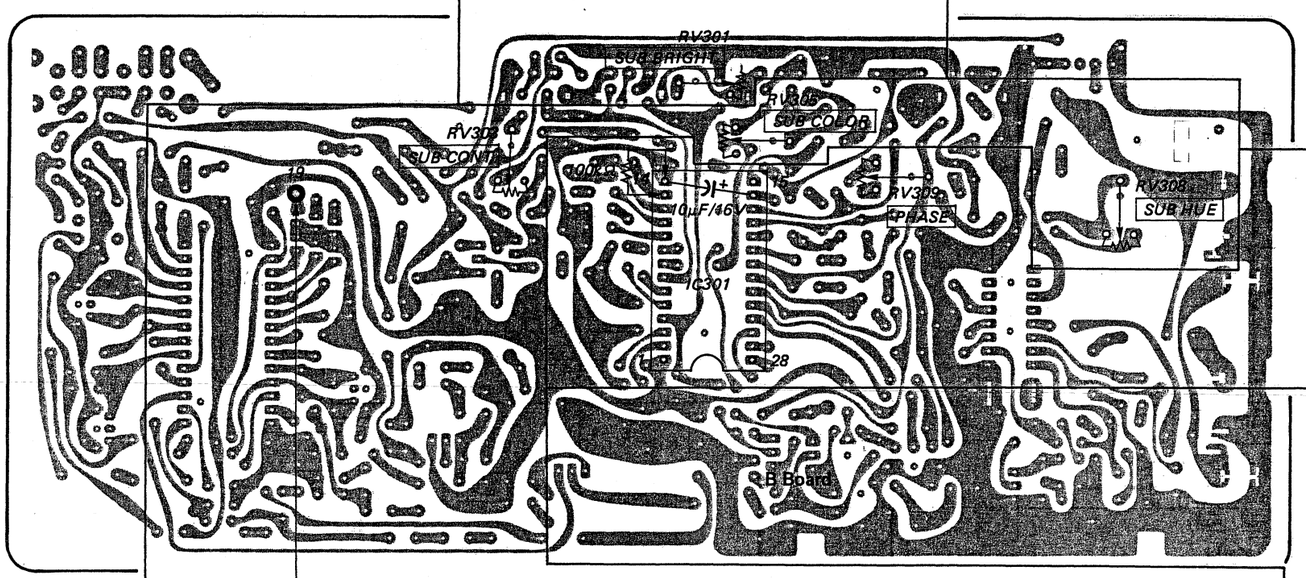
Reduced Voltage Protection

1) *Receive a broadcast.*
2) *Apply 10.6V ± 0.1V to the power supply line and confirm that the circuit operates.*
3) *Confirm that the circuit does not operate when power supply line voltage is 10.2 ± 0.1V. Also, confirm that the power indicator blinks at this time.*
4) *When step 3) is not satisfied, adjust RV621 (LOW V ADJ).*

Horizontal Center (H CENT)

1) *Receive a broadcast.*
2) *To correct to the right, adjust with the bridge combination of R525, R526, R527 and to correct to the left, adjsut with the bridge combination of R522, R523, R524 for optimum position.*
3) *The correction amount gets larger as each resistor value decreases.*

3-2-2. B BOARD ADJUSTMENTS

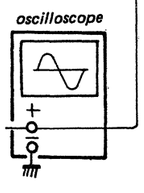


SUB BRIGHT

1) *Receive a broadcast.*
2) *Set the PICTURE knob at minimum, the BRIGHT knob at center click, and the COLOR knob at minimum.*
3) *Turn RV301 (SUB BRIGHT) and adjust for optimum brightness.*
4) *Turn the PICTURE knob and adjust for optimum picture.*
5) *Receive each channel and confirm that there is no extreme brightness.*

Color Phase (APC) Checking

1) *Receive PAL color bar from pattern generator.*
2) *Set COLOR, PICTURE, HUE and BRIGHT knobs at center click.*
3) *Mount 100kΩ between IC301 pin 13 and ground and 10µF/16V between pin 16 and ground.*
4) *Turn RV309 (PHASE) while observing the picture, and adjust so that color stripes stop.*

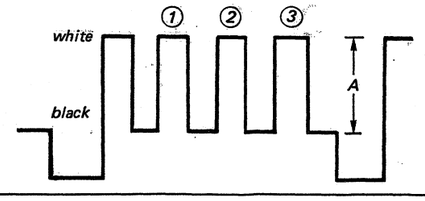


SUB CONT

1) *Receive PAL color bar signal from a pattern generator.*
2) *Set the COLOR control to minimum and set the PICTURE, BRIGHT control to center click position.*
3) *Observe blue output (No. 19) on an oscilloscope (see figure below).*
4) *Adjust RV303 (SUB CONT) for 1.5V ± 0.1Vp-p from black to white level A.*

SUB COLOR, SUB HUE

1) *Receive SECAM color bar signal from a pattern generator.*
2) *Set COLOR, PICTURE and BRIGHT control to center click position.*
3) *Adjust RV305 (SUB COLOR) so that ① (cian) ② (magenta) and ③ (blue) levels are the same.*
4) *Receive PAL color bar signal from a pattern generator.*
5) *Adjust RV308 (SUB HUE) so that ① (cian) and ② (magenta) levels are the same.*



3-2-3. M BOARD ADJUSTMENTS

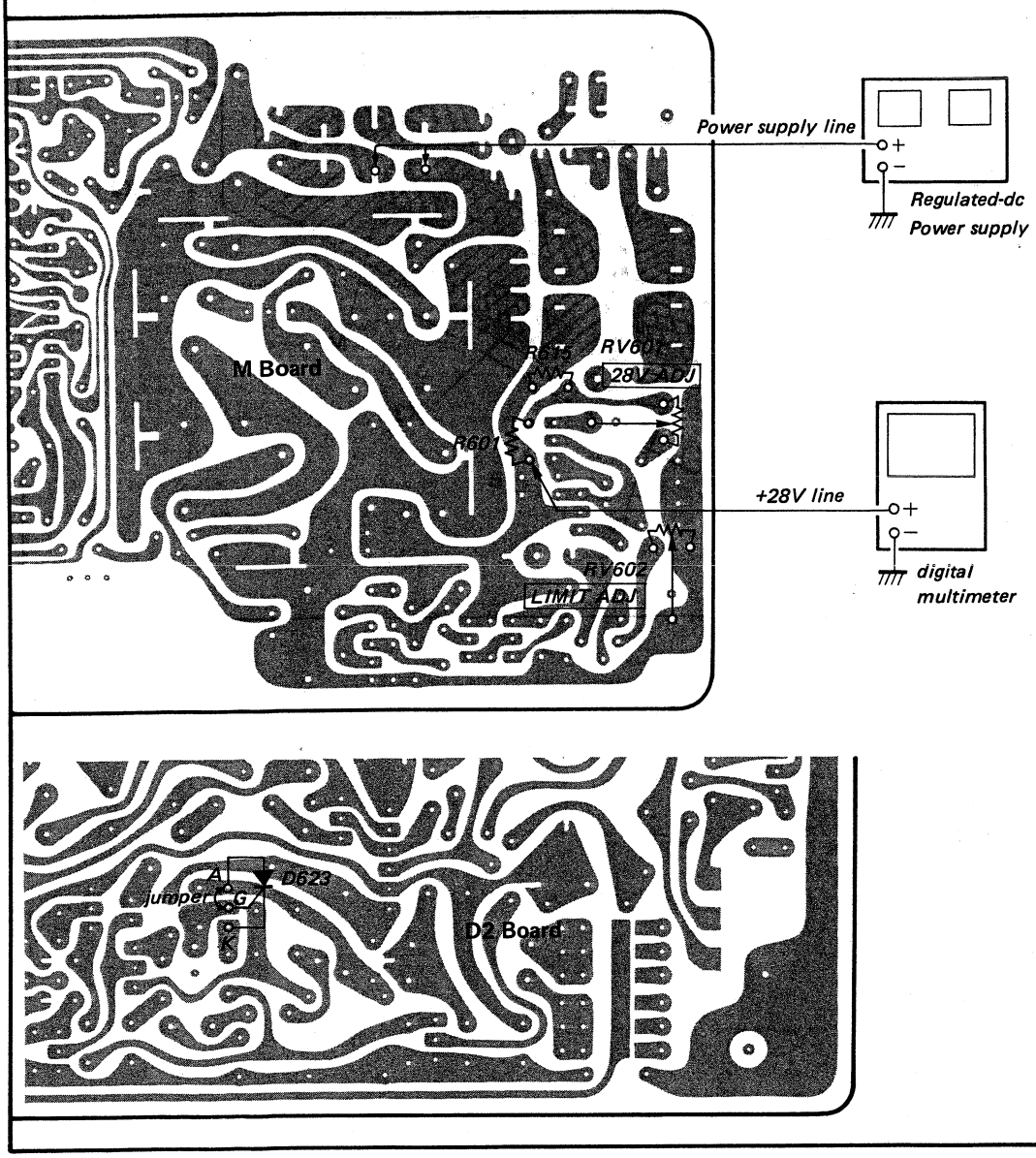
R615, R601 Checking Method (+BMAX)

Be sure to perform this adjustment when replacing the following parts:
D601, Q601, R517, R601, R602, R608, R615, RV601, RV602

1) *Remove NP-1, AC adaptor and turn on the power switch.*
2) *Receive a broadcast.*
3) *Set PICTURE and BRIGHT knobs at minimum.*
4) *Connect regulated-dc power supply to the power supply line, and apply DC 26.5 ± 0.05V.*
5) *Adjust RV601 and RV602 and confirm that the 28V line maximum voltage does not go over +30V.*
6) *When step 5) is not satisfied, select R615, R601 resistance values and mount.*
   Note: R615 may not be mounted in some sets.

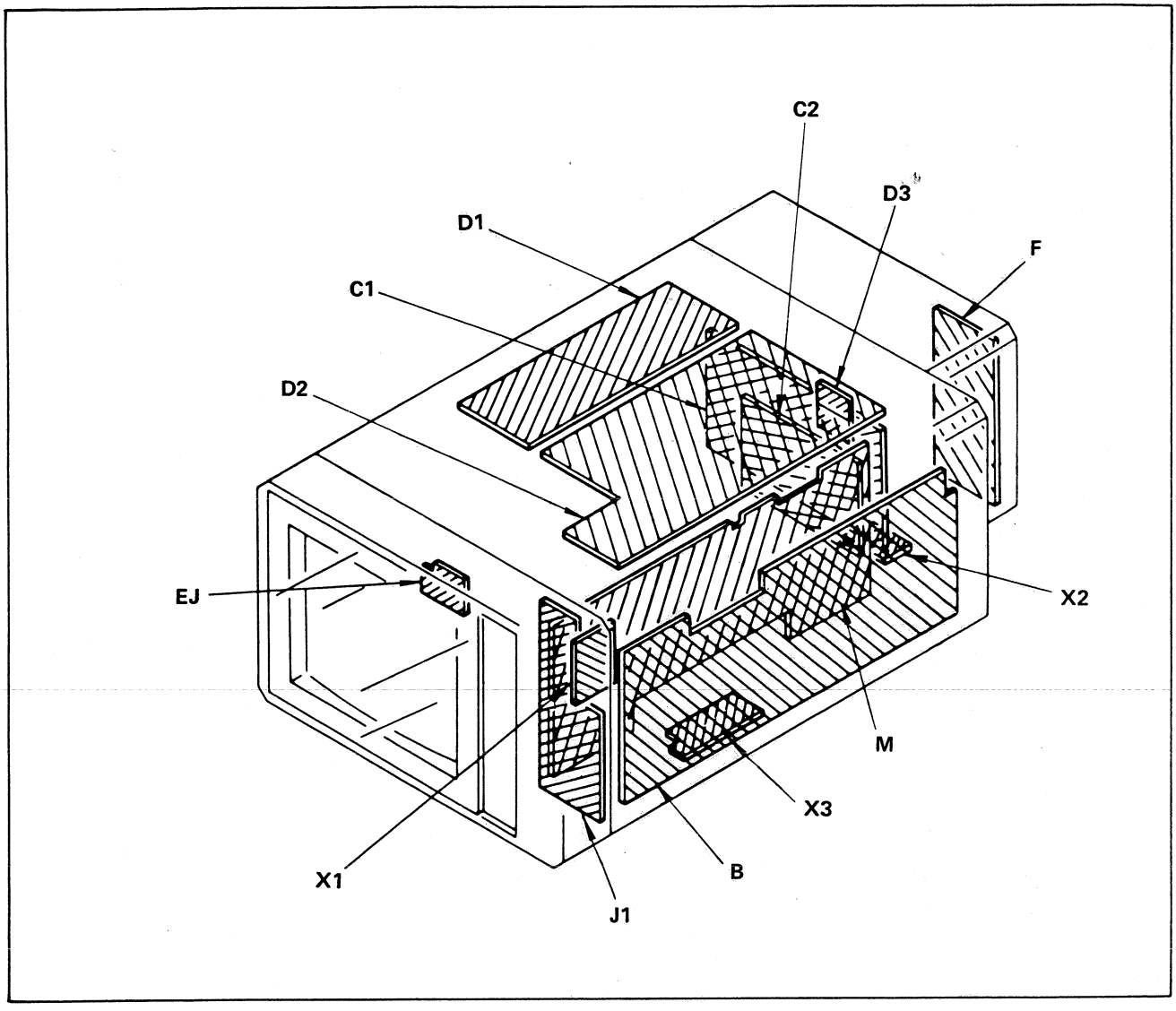
+B Adjustment (after +BMAX adjustment)

1) *Short-circuit D623 anode and gate on D2 board with a jumper.*
2) *Receive a broadcast and set PICTURE and BRIGHT at mechanical center.*
3) *Apply 18V ± 0.1V to the power supply line, and adjust RV601 (28V ADJ) so that +28V line voltage is 28V ± 0.1V.*
4) *Make power supply line voltage 10.3V ± 0.1V, and adjust RV602 (LIMIT ADJ) so that the +28V line is 27.2V ± 0.1V.*
5) *When steps 3) and 4) are not satisfied, repeat the adjustment.*
6) *Disconnect the jumper on D2 board.*

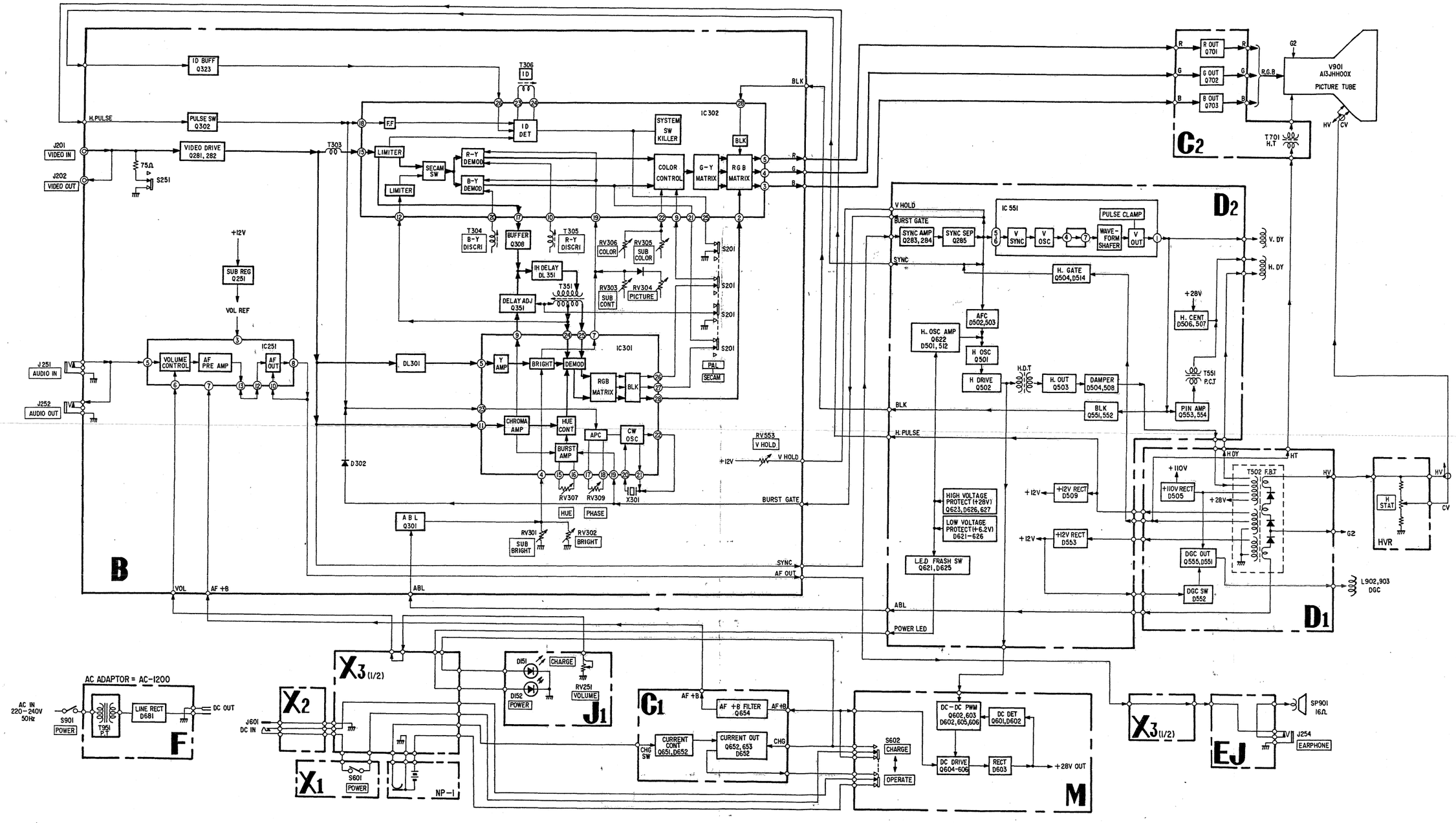


SECTION 4
DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION



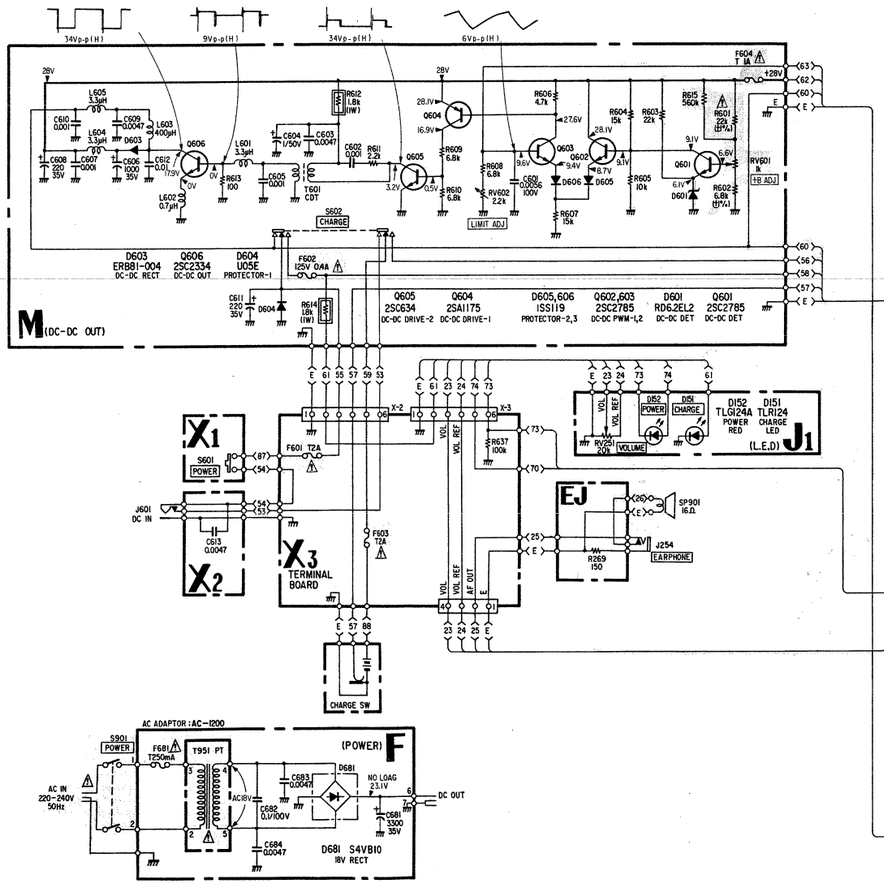
4-2. BLOCK DIAGRAM

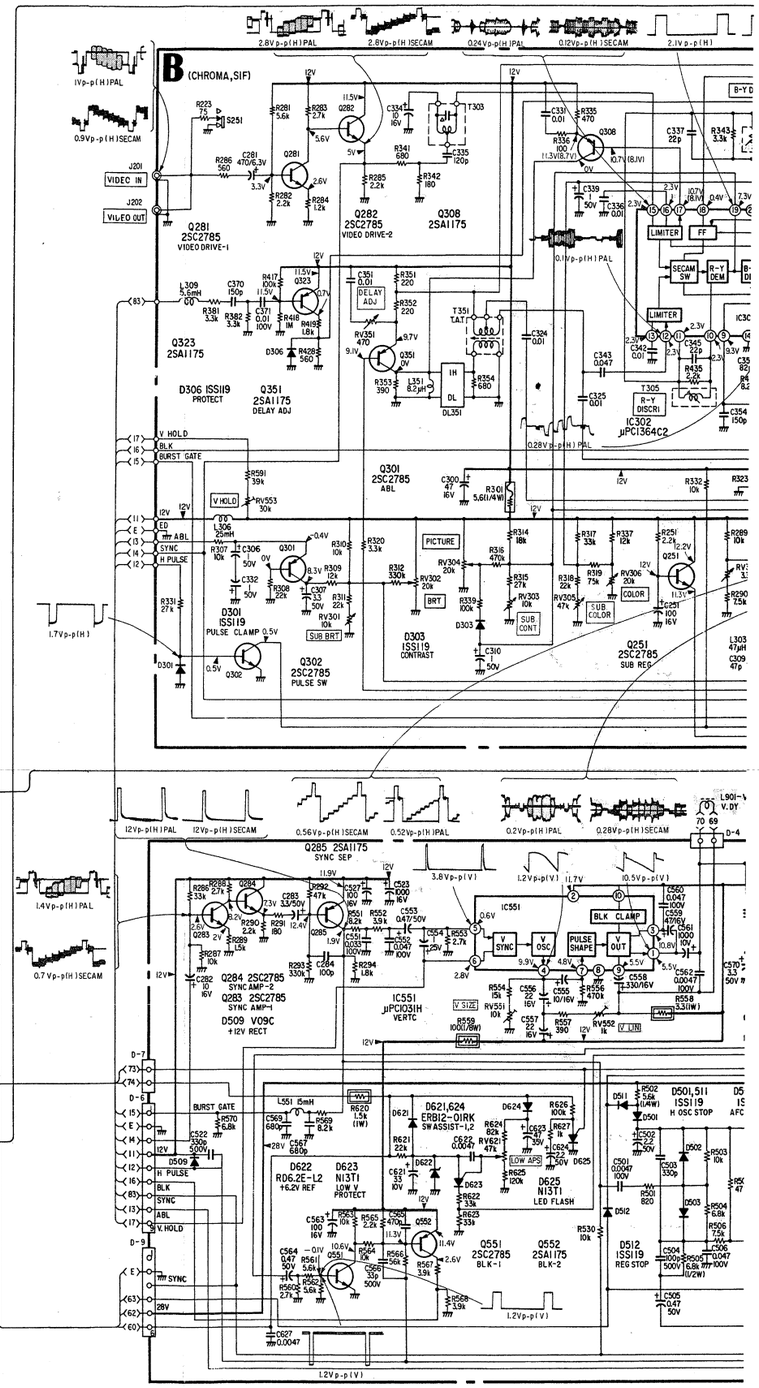


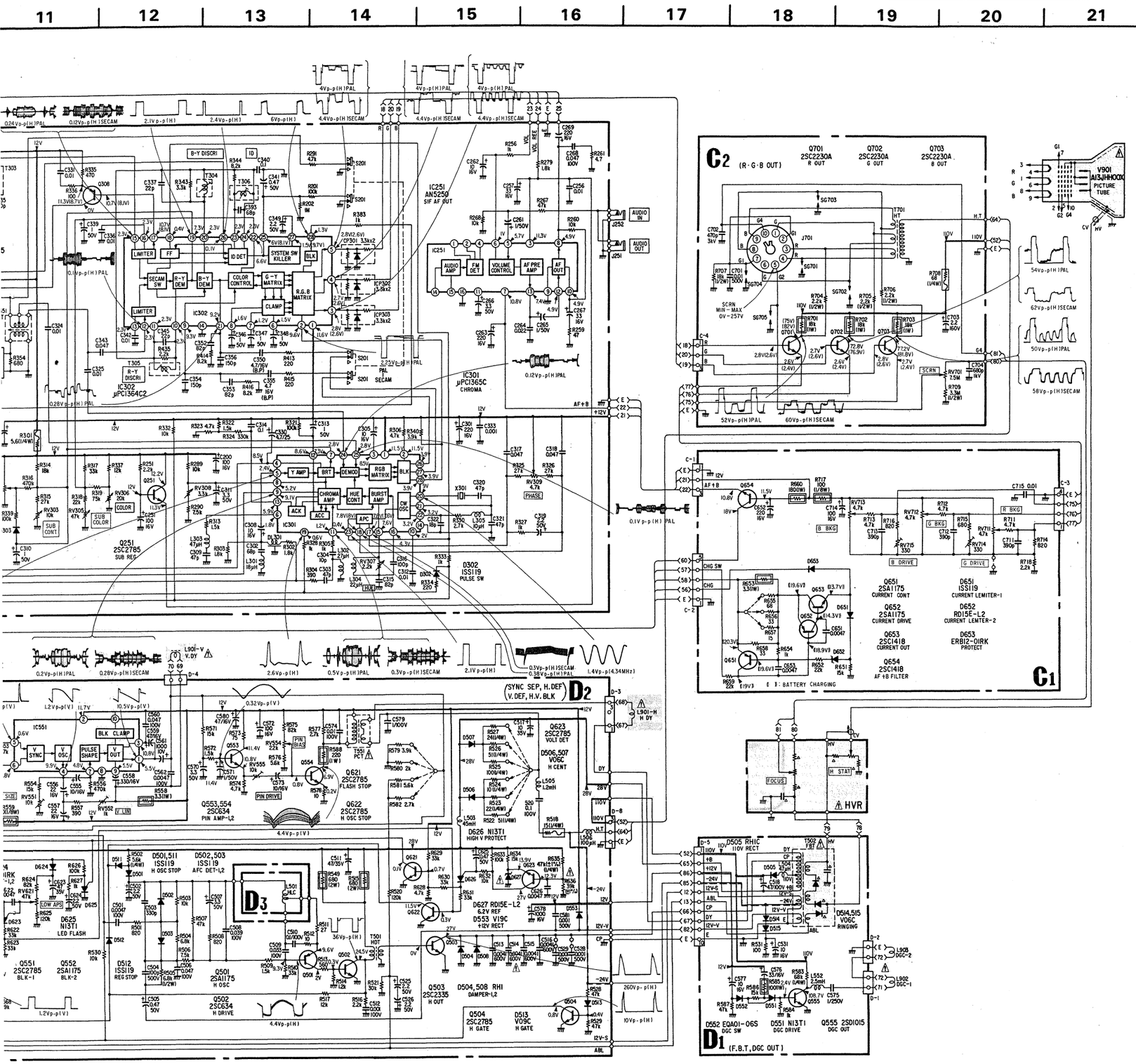
4-3. SCHEMATIC DIAGRAM

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics. pF : μμF
- All resistors are in ohms, ⅙W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- : nonflammable resistor.
- △ : internal component.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ———: B+ bus.
- – – –: B- bus.
- Readings are taken with a 10MΩ digital multimeter.
  PICTURE ..... mechanical center ound unless otherwise
  BRIGHT ..... mechanical cente
- Readings are taken with a color-bar signal input.
- Input voltage is +18V to connector J601.






11
12
13
14
15
16
17
18
19
20
21
22
A
B
C
D
E
F
G
H
I
J
C2 (R-G-B OUT)
Q701 2SC2230A R OUT
Q702 2SC2230A G OUT
Q703 2SC2230A B OUT
V901 A13JHH00X PICTURE TUBE
IC251 AN5250 SIF AF OUT
IC301 μPCI365C CHROMA
IC302 μPCI364C2
Q251 2SC2785 SUB REG
Q302 ISS119 PULSE SW
Q553,554 2SC634 PIN AMP-1,2
Q621 2SC2785 FLASH STOP
Q622 2SC2785 H OSC STOP
D2 (SYNC SEP, H.DEF V.DEF, H.V. BLK)
D3
Q501 2SA1175 H OSC
Q502 2SC634 H DRIVE
Q503 2SC2335 DAMPER-1,2
D504,508 RHI
D626 NI3TI HIGH V PROTECT
D627 RD15E-L2 6.2V REF
D553 V19C +12V RECT
D625 NI3TI LED FLASH
D512 ISS119 REG STOP
D501,511 ISS119 H OSC STOP
D502,503 ISS119 AFC DET-1,2
Q654
Q651 2SA1175 CURRENT CONT
Q652 2SA1175 CURRENT DRIVE
Q653 2SC1418 CURRENT OUT
Q654 2SC1418 AF +B FILTER
D651 ISS119 CURRENT LEMITER-1
D652 RD15E-L2 CURRENT LEMTER-2
D653 ERB12-01RK PROTECT
C1
D1 (F.B.T, DGC OUT)
D505 RHIC 110V RECT
D514,515 V06C RINGING
Q552 EQA01-06S DGC SW
Q551 NI3TI DGC DRIVE
Q555 2SD1015 DGC OUT
HVR
FOCUS
H STAT
54Vp-p(H)PAL
62Vp-p(H)SECAM
50Vp-p(H)PAL
58Vp-p(H)SECAM
52Vp-p(H)PAL
60Vp-p(H)SECAM
0.24Vp-p(H)PAL
0.12Vp-p(H)SECAM
2.1Vp-p(H)
2.4Vp-p(H)
6Vp-p(H)
4.4Vp-p(H)SECAM
4Vp-p(H)PAL
0.1Vp-p(H)PAL
0.28Vp-p(H)PAL
2.25Vp-p(H)PAL SECAM
0.12Vp-p(H)PAL
0.1Vp-p(H)PAL
0.2Vp-p(H)PAL
0.28Vp-p(H)SECAM
2.6Vp-p(H)
0.5Vp-p(H)PAL
0.3Vp-p(H)SECAM
2.1Vp-p(H)
0.3Vp-p(H)SECAM
0.38Vp-p(H)PAL
1.4Vp-p(4.34MHz)
4.4Vp-p(V)
260Vp-p(H)
10Vp-p(H)
36Vp-p(H)
L901-V V.DY
L901-H H DY
T501 FBT
T502 FBT
AUDIO IN
AUDIO OUT
J252
J251
AF+B
+12V
-24V
110V
SCRN
CHG SW
CHG
ABL

4-4. PRINTED WIRING BOARDS

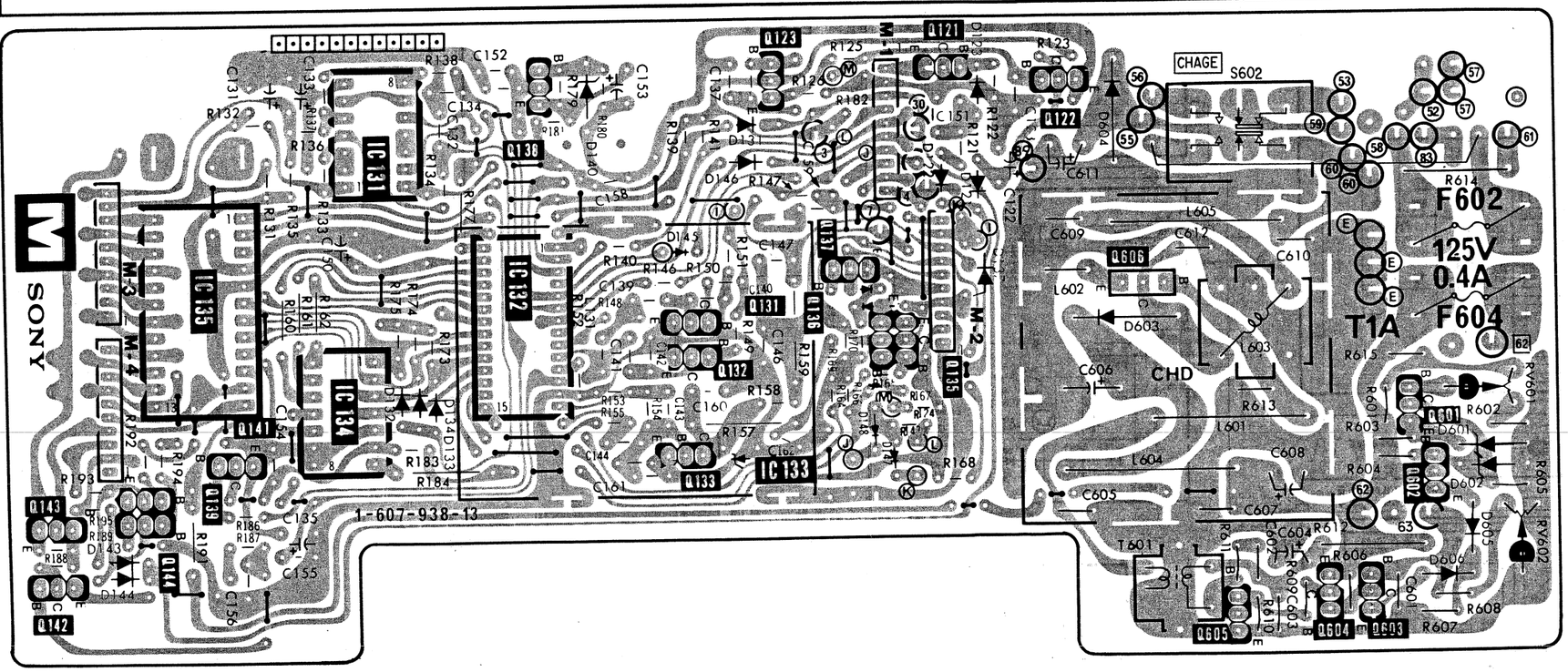
– Conductor Side –

[DC-DC OUT] M M

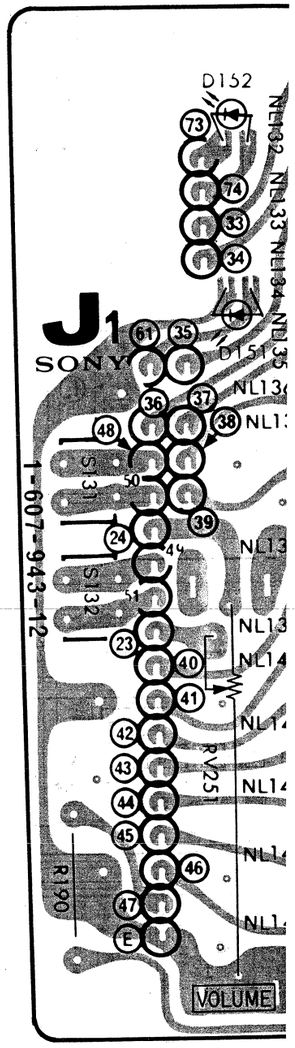
– M Board –

Q																Q
D																D
ADJ																ADJ

606 605 604,603 601 602
604 603 601 606,605
RV601 RV602



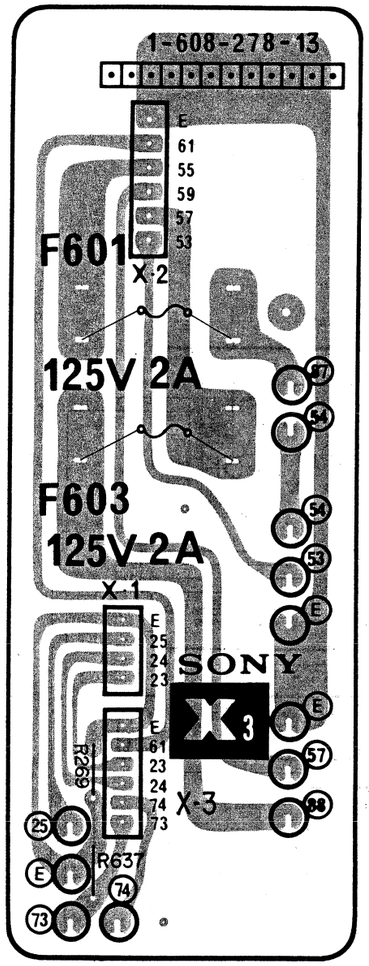
– J1 Board –



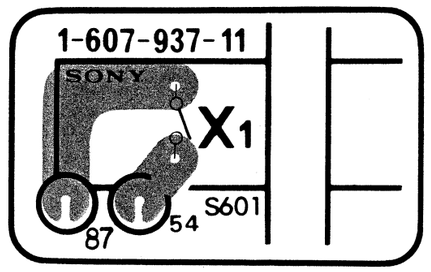
15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

A B C D E F G H I

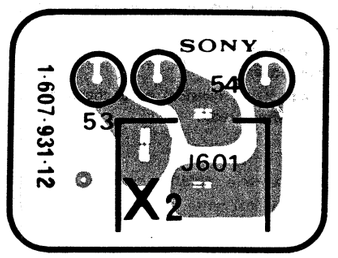
– X3 Board –



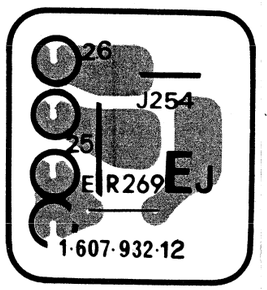
– X1 Board –

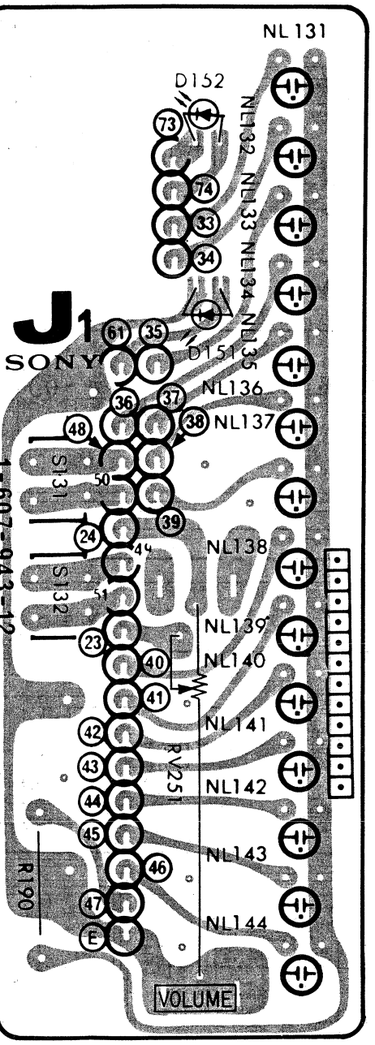


– X2 Board –



– EJ Board –





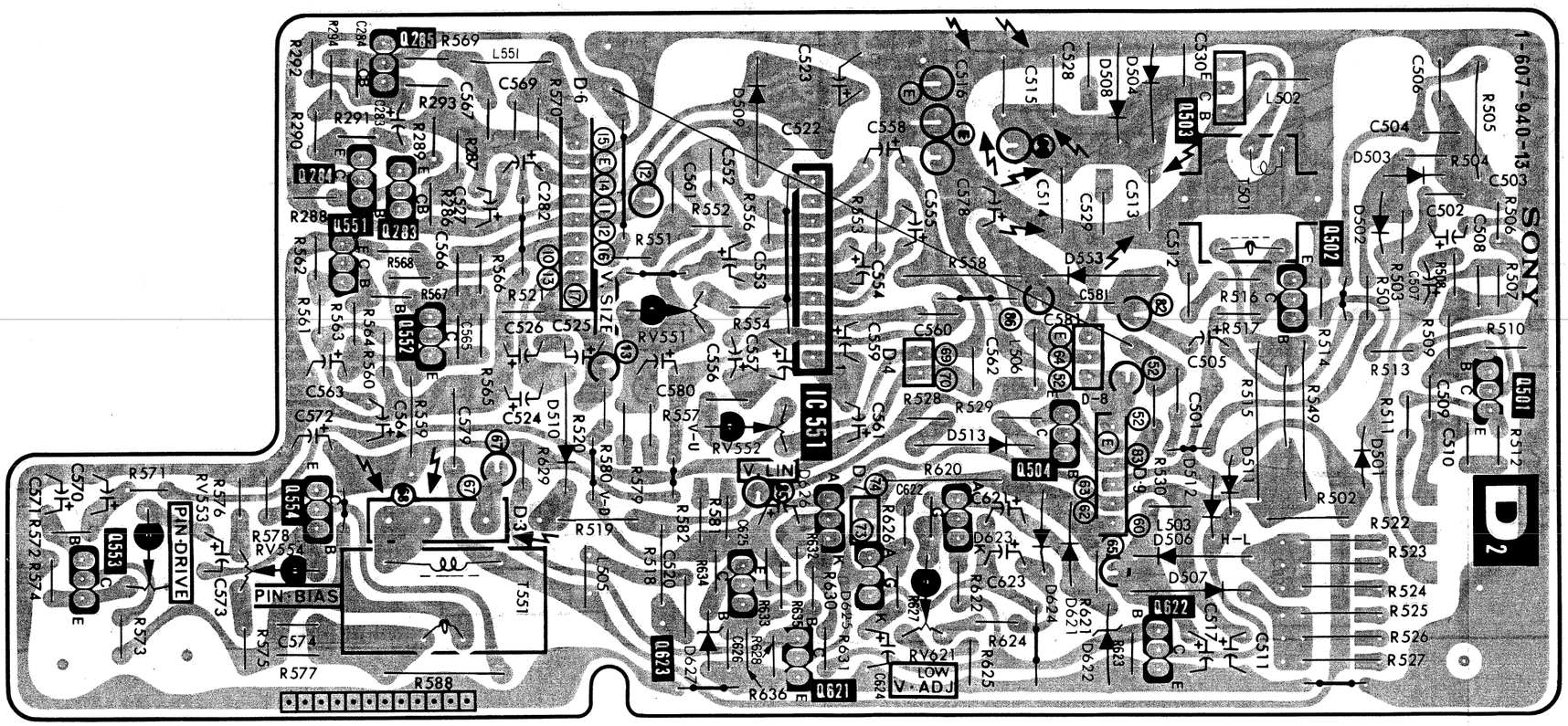
[SYNC SEP, H. DEF, V. DEF, H.V. BLK] **D2** **D2**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

A B C D E F G H I

— D2 Board —

IC Q	553 554 551 552 285 284 283 623 621 IC551 504 622 503 502 501	IC Q
D	510 509 627 626 625 623 513 624,621 622 553 508 504 506 512 511 507 502 503 501	D
ADJ	RV553 RV554 RV551 RV552 RV621	ADJ

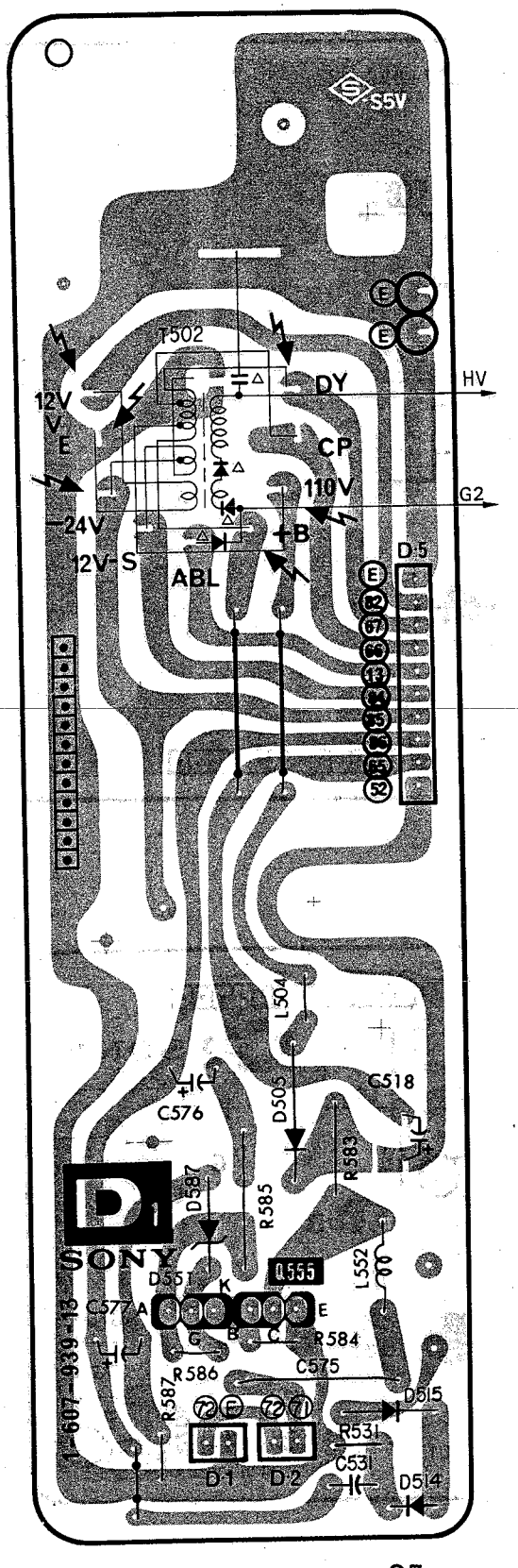


— B Board —

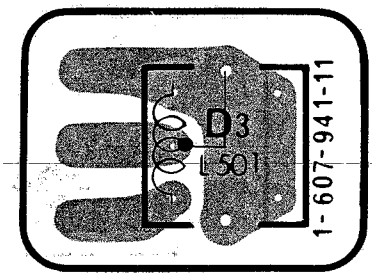
| | | |

[FBT, DGC OUT] **D1** **D3**

— D1 Board —



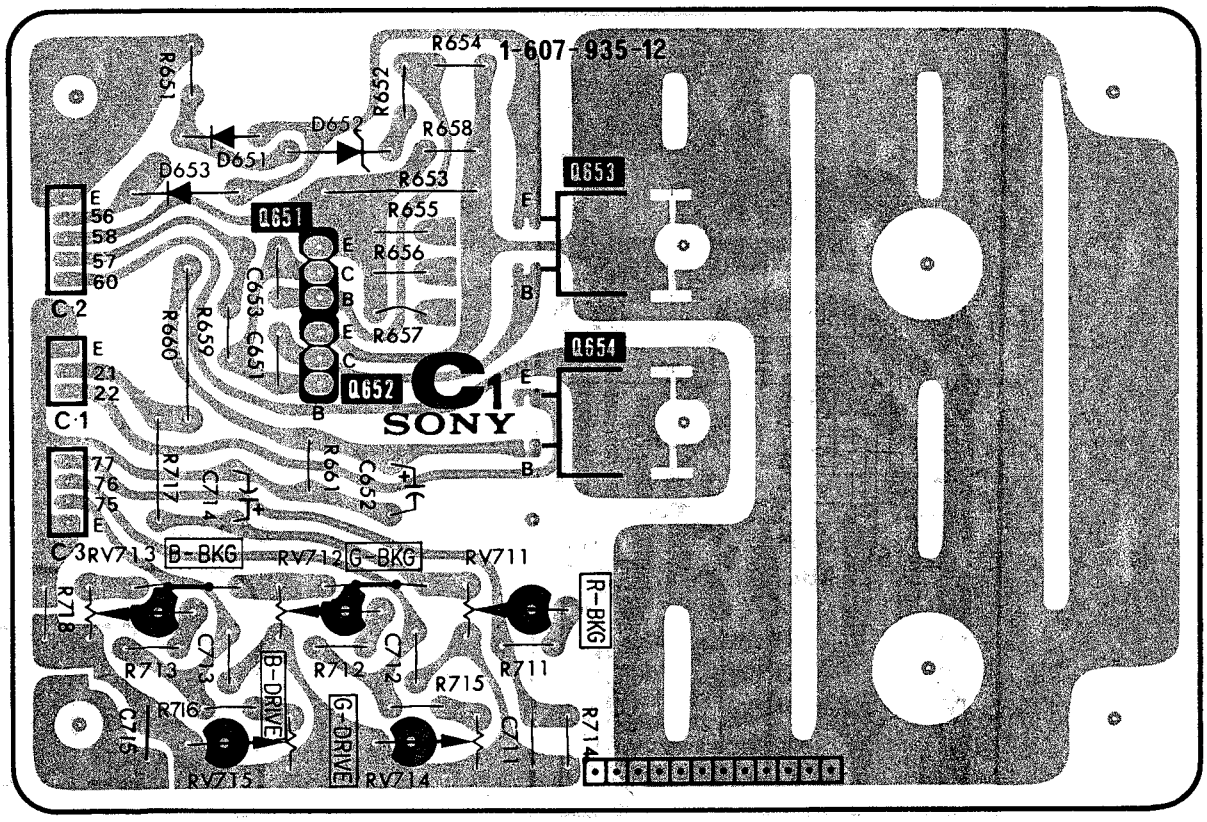
— D3 Board —



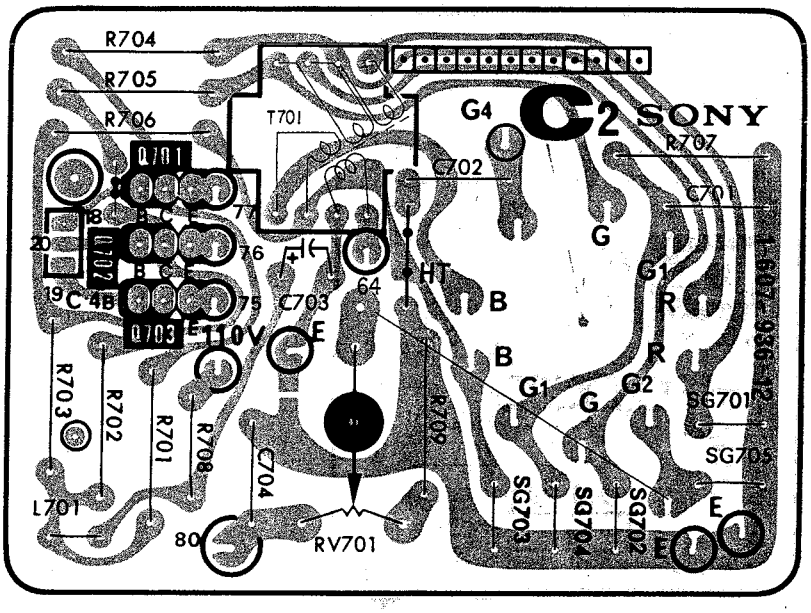
C1 C2

[R·G·B OUT]

— C1 Board —

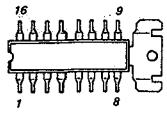


— C2 Board —



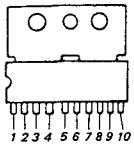
4-5. SEMICONDUCTORS

AN5250

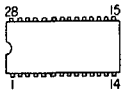


(Marking side view)

μPC1031H



μPC1365C
μPC1364C2

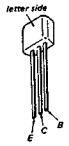


(Top view)

2SA733
2SA1015
2SC945
2SC1364
2SC1815
2SC2230A
2SC2603
2SD1015
JC501

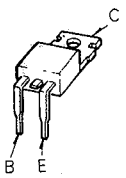
2SA1048
2SA1048-GR
2SA1115
2SC2458

2SA1175
2SC2785

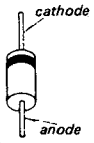


2SC1061
2SC2334
2SC2335

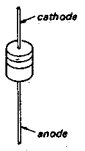
2SC1418



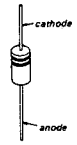
1N4148H
1S1555
1S2076
1S2473
1SS120
EM1Z
RD15E-L2
RD6.2E-L1
RD6.2E-L2
RD6.2E-L3
RD15E-L3
US1035



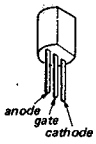
1SS119
1SS120
1SS133
1SS148



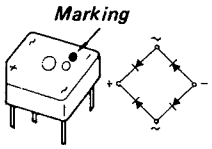
EQA01-06S
EQA01-06
EQA02-06C
ERB12-01RK
ERB12-02RK
ERB81-004
GP08D
RH1
RH1A
RH1C
SIB01-02



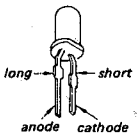
N13T1



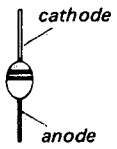
S4VB10
S4VB20
S4VB40



TLG124A
TLR124



U05E
U05G
V06C
V06J
V09C



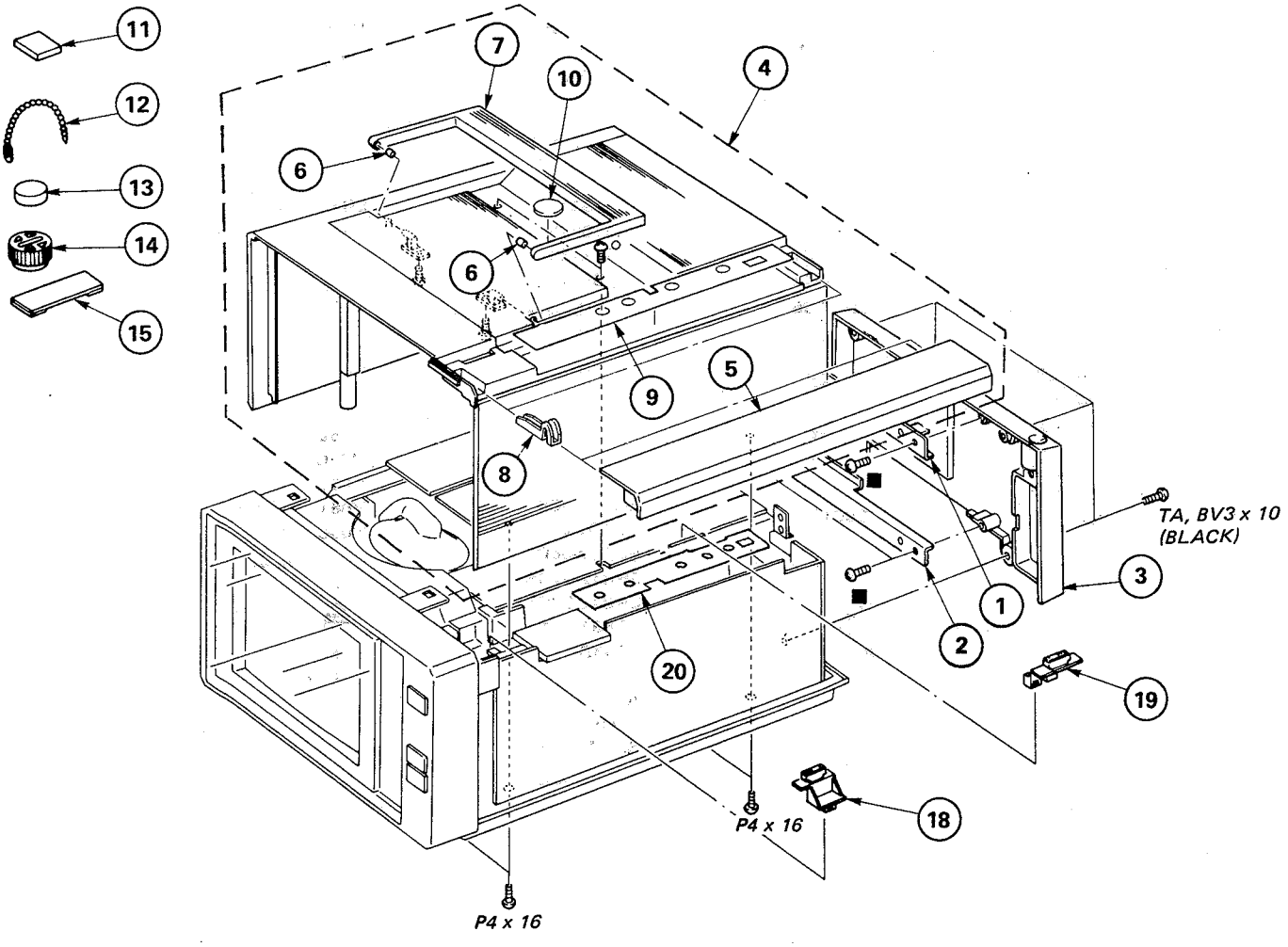
SECTION 5
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

5-1. CABINET

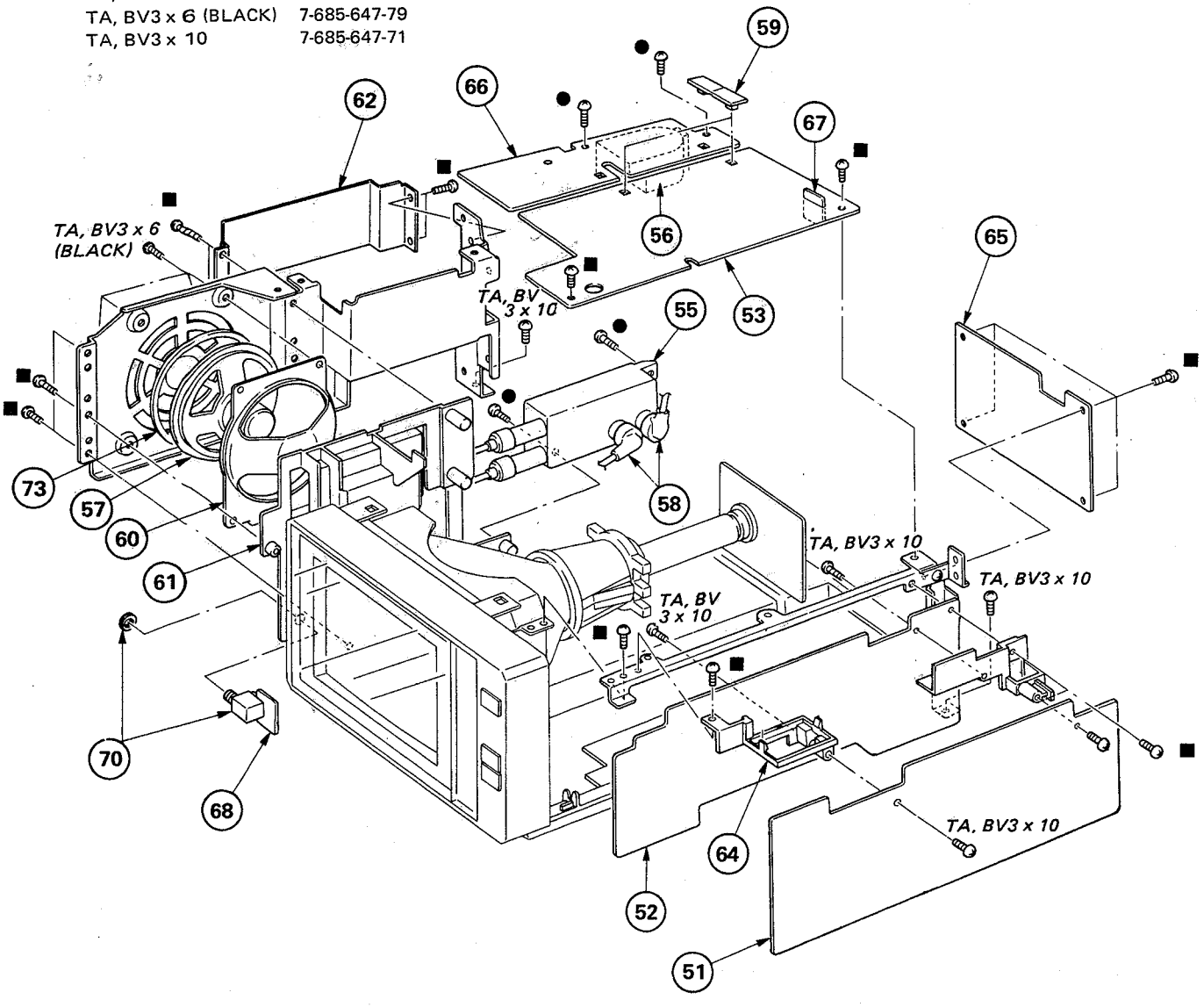
● :	TA, BV3 x 8	7-685-646-71
○ :	TA, BV3 x 12 (BLACK)	7-685-648-79
	TA, BV3 x 10 (BLACK)	7-685-647-79
	P4 x 16	7-685-163-29



No.	Part No	Description	Remark
1	♦:4-361-453-00	BRACKET (A), AC ADAPTOR	
2	♦:4-361-454-00	BRACKET (B), AC ADAPTOR	
3	X-4371-905-1	COVER ASSY, REAR	
4	X-4371-902-1	CABINET ASSY	5,6,7,8,9,10
5	X-4361-408-4	LID ASSY, ADJUSTMENT	
6	♦:4-361-410-00	SPACER, HANDLE	
7	4-361-428-21	HANDLE	
8	♦:4-361-469-00	ARM, LID, ADJUSTMENT	
9	4-371-908-01	LABEL, CONTROL	
10	9-911-840-XX	SPACER, SIDE	
11	1-452-126-11	MAGENT	
12	4-308-870-00	CLIP, LEAD WIRE	
13	1-452-032-00	MAGNET, DISK; 10MM Ø	
14	1-452-094-00	MAGENT, ROTATABLE DISK; 15MM Ø	
15	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
18	4-361-412-00	KNOB (A), SLIDE SWITCH	
19	4-361-413-00	KNOB (B), SLIDE SWITCH	
20	♦:4-361-487-00	SHEET, CONTROL	

5-2. CHASSIS

■ : TA, BV3 x 8 7-685-646-71
● : TA, BV3 x 12 7-685-648-71
TA, BV3 x 6 (BLACK) 7-685-647-79
TA, BV3 x 10 7-685-647-71

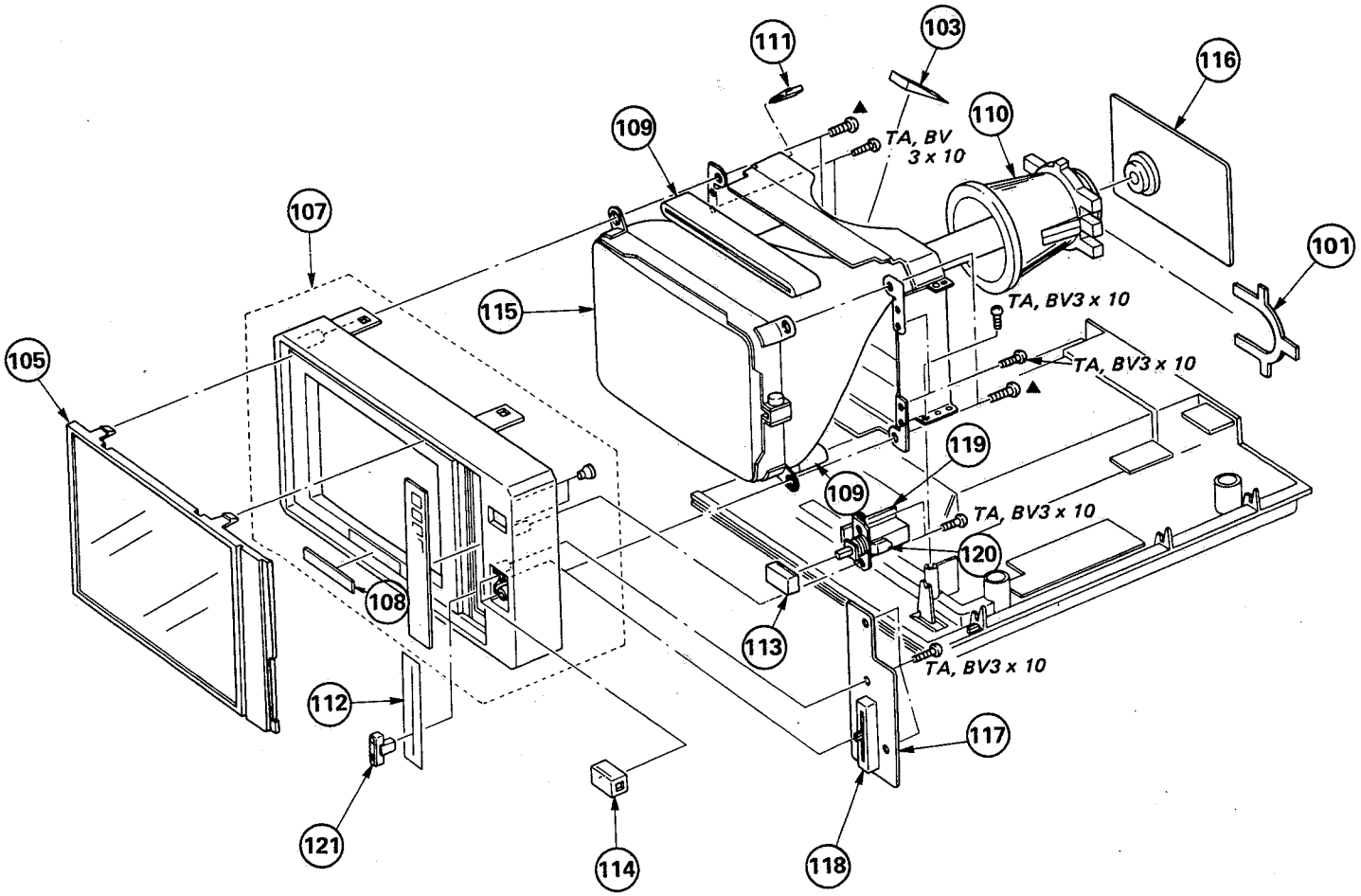


No.	Part No	Description	Remark
51	♦:A-1135-242-A	B BOARD, COMPLETE	
52	♦:A-1301-578-A	M BOARD, COMPLETE	
53	♦:A-1340-620-A	D2 BOARD, COMPLETE	
55	⚠:1-228-776-11	RESISTOR ASSY, HIGH-VOLTAGE	
56	⚠:1-439-299-11	TRANSFORMER ASSY, FLYBACK	
57	1-502-703-00	SPEAKER	
58	3-705-769-00	CAP, RUBBER	
59	♦:4-313-732-00	CLIP, HINGE, CIRCUIT BOARD	
60	♦:4-344-240-00	BRACKET, SPEAKER	
61	♦:4-361-445-00	CLAMP, LEAD, H.V	
62	♦:4-361-455-00	PLATE, SHIELD	
64	♦:4-361-402-00	BRACKET, J2 PC BOARD	
65	♦:1-607-935-00	C1 BOARD	
66	♦:1-607-939-00	D1 BOARD	
67	♦:1-607-941-00	D3 BOARD	
68	♦:1-607-932-00	EJ BOARD	
70	1-507-569-00	JACK, EARPHONE	
73	4-344-292-00	SPACER	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

5-3. BEZEL

▲ : TA, BV4 x 12 7-685-661-14
TA, BV3 x 10 7-685-647-71

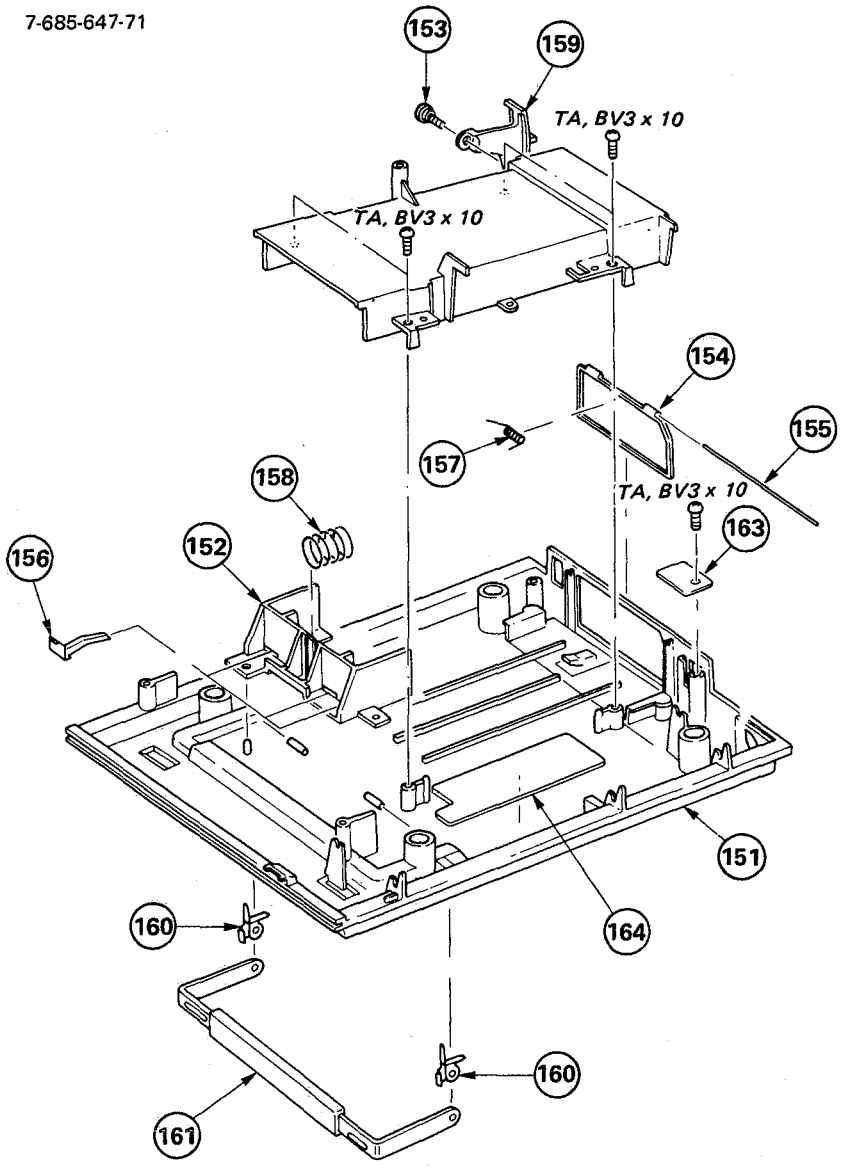


No.	Part No	Description	Remark
101	1-452-192-00	MAGNET, CORRECT BMC	
103	4-309-369-00	SPACER, DEFLECTION YOKE	
105	X-4371-904-1	FILTER ASSY	
107	X-4371-901-1	BEZEL ASSY	108
108	♦:3-703-352-00	EMBLEM, SONY	
109	⚠:1-426-023-21	COIL, DEGAUSS	
110	⚠:1-451-177-21	DEFLECTION YOKE (SY-59E)	
111	4-335-308-00	RETAINER, AC CORD	
112	♦:4-344-748-00	BLIND, CONTROL	
113	4-361-403-00	PUSH BUTTON (A)	
114	4-361-404-00	PUSH BUTTON (B)	
115	⚠:8-735-102-05	CRT (A13JHH00X)	
116	♦:1-607-936-00	C2 BOARD	
117	♦:1-607-943-00	J1 BOARD	
118	1-228-350-00	RES, VAR, SLIDE 20K	
119	♦:1-607-937-00	X1 BOARD	
120	1-554-253-00	SWITCH, PUSH (POWER SWITCH)	
121	4-361-405-11	KNOB, SLIDE	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

5-4. CABINET (LOWER)

TA, BV3 x 10 7-685-647-71



No.	Part No	Description	Remark
151	X-4371-903-1	CABINET (LOWER) ASSY	152,153,154,155 156,157,158,159 160,161
152	♦:2-291-529-00	HOLDER, BATTERY	
153	3-486-138-00	SCREW	
154	3-669-517-91	LID, BATTERY CASE	
155	♦:3-669-521-00	SHAFT (B)	
156	♦:3-669-526-00	TERMINAL	
157	3-669-592-00	SPRING (A), TORSION	
158	3-669-594-00	SPRING, COMPRESSION	
159	♦:4-361-415-00	LEVER (B), RELEASE	
160	♦:4-361-418-00	REINFORCEMENT, STAND	
161	♦:4-361-427-00	STAND	
163	♦:1-607-931-00	X2 BOARD	
164	♦:1-608-278-00	X3 BOARD	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

• Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μF, PF : μμF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μH

Ref.No.	Part No.	Description			Remark
	♦:A-1135-242-A	B BOARD, COMPLETE **********			
	1-536-855-11	TERMINAL BOARD, INPUT/OUTPUT			
		CONNECTOR			
C1	♦:1-555-927-00	CONNECTOR ASSY (2.0MM) 3P			
C4	♦:1-555-927-00	CONNECTOR ASSY (2.0MM) 3P			
D6	♦:1-556-878-00	CONNECTOR ASSY (2.5MM) 9P			
X1	♦:1-555-920-00	CONNECTOR ASSY (2.0MM) 4P			
		CAPACITOR			
C200	1-123-333-00	ELECT	100MF	20%	16V
C251	1-123-333-00	ELECT	100MF	20%	16V
C256	1-101-004-00	CERAMIC	0.01MF		50V
C257	1-123-318-00	ELECT	33MF	20%	16V
C261	1-123-380-00	ELECT	1MF	20%	50V
C262	1-123-316-00	ELECT	10MF	20%	16V
C263	1-123-321-00	ELECT	220MF	20%	16V
C264	1-161-055-00	CERAMIC	0.022MF	10%	50V
C265	1-123-380-00	ELECT	1MF	20%	50V
C266	1-123-382-00	ELECT	3.3MF	20%	50V
C267	1-123-318-00	ELECT	33MF	20%	16V
C268	1-106-212-00	MYLAR	0.047MF	10%	100V
C269	1-123-321-00	ELECT	220MF	20%	16V
C281	1-123-298-00	ELECT	470MF	20%	6.3V
C300	1-123-332-00	ELECT	47MF	20%	16V
C301	1-123-321-00	ELECT	220MF	20%	16V
C302	1-101-888-00	CERAMIC	68PF	5%	50V
C303	1-101-880-00	CERAMIC	47PF	5%	50V
C304	1-102-947-00	CERAMIC	10PF	5%	50V
C305	1-123-316-00	ELECT	10MF	20%	16V
C306	1-123-380-00	ELECT	1MF	20%	50V
C307	1-123-382-00	ELECT	3.3MF	20%	50V
C308	1-123-316-00	ELECT	10MF	20%	16V
C309	1-101-880-00	CERAMIC	47PF	5%	50V
C310	1-123-380-00	ELECT	1MF	20%	50V
C311	1-123-382-00	ELECT	3.3MF	20%	50V
C312	1-101-004-00	CERAMIC	0.01MF		50V
C313	1-123-380-00	ELECT	1MF	20%	50V
C314	1-136-165-00	MYLAR	0.1MF	10%	50V
C315	1-102-527-00	CERAMIC	82PF	5%	50V
C316	1-102-973-00	CERAMIC	100PF	5%	50V
C317	1-101-006-00	CERAMIC	0.047MF		50V
C318	1-101-006-00	CERAMIC	0.047MF		50V
C319	1-123-381-00	ELECT	2.2MF	20%	50V
C320	1-102-852-00	CERAMIC	47PF	5%	50V
C321	1-102-852-00	CERAMIC	47PF	5%	50V
C322	1-102-513-00	CERAMIC	18PF	5%	50V
C324	1-101-004-00	CERAMIC	0.01MF		50V
C325	1-101-004-00	CERAMIC	0.01MF		50V
C330	1-123-369-00	ELECT	4.7MF	20%	25V
C331	1-102-129-00	CERAMIC	0.01MF	10%	50V
C332	1-123-380-00	ELECT	1MF	20%	50V
C333	1-102-074-00	CERAMIC	0.001MF	10%	50V
C334	1-123-316-00	ELECT	10MF	20%	16V
C335	1-102-679-00	CERAMIC	120PF	5%	50V
C336	1-102-129-00	CERAMIC	0.01MF	10%	50V
C337	1-102-892-00	CERAMIC	22PF	5%	50V
C339	1-123-380-00	ELECT	1MF	20%	50V
C340	1-108-849-00	MYLAR	0.1MF	10%	50V
C341	1-123-379-00	ELECT	0.47MF	20%	50V
C342	1-102-129-00	CERAMIC	0.01MF	10%	50V
C343	1-101-006-00	CERAMIC	0.047MF		50V
C345	1-102-892-00	CERAMIC	22PF	5%	50V
C346	1-123-380-00	ELECT	1MF	20%	50V
C347	1-123-380-00	ELECT	1MF	20%	50V
C348	1-123-380-00	ELECT	1MF	20%	50V
C349	1-123-381-00	ELECT	2.2MF	20%	50V
C350	1-121-257-00	ELECT	4.7MF		16V
C351	1-101-004-00	CERAMIC	0.01MF		50V
C352	1-102-971-00	CERAMIC	82PF	5%	50V
C353	1-102-971-00	CERAMIC	82PF	5%	50V
C354	1-101-361-00	CERAMIC	150PF	5%	50V
C355	1-121-257-00	ELECT	4.7MF		16V
C356	1-101-361-00	CERAMIC	150PF	5%	50V
C370	1-101-361-00	CERAMIC	150PF	5%	50V
C371	1-106-196-00	MYLAR	0.01MF	10%	100V
C393	1-102-525-00	CERAMIC	68PF	5%	50V
		DIODE			
D301	8-719-911-19	DIODE 1SS119			
D302	8-719-911-19	DIODE 1SS119			
D303	8-719-911-19	DIODE 1SS119			
D306	8-719-911-19	DIODE 1SS119			
		DELAY LINE			
DL301	1-415-176-00	DELAY LINE			
DL351	1-415-122-31	DELAY LINE			
		IC			
IC251	8-759-400-01	IC AN5250			
IC301	8-759-113-65	IC UPC1365C			
IC302	8-759-100-15	IC UPC1364C2			
		COIL			
L301	1-408-412-00	MICRO INDUCTOR 18UH			
L302	1-408-414-00	MICRO INDUCTOR 27UH			
L303	1-408-417-00	MICRO INDUCTOR 47UH			
L304	1-408-413-00	MICRO INDUCTOR 22UH			
L305	1-408-409-00	MICRO INDUCTOR 10UH			
L306	1-421-013-00	COIL, (HOLIZONTAL CHOKE) 25MH			
L309	1-408-163-00	MICRO INDUCTOR 5.6MMH			
L351	1-408-408-00	MICRO INDUCTOR 8.2UH			

Ref.No.	Part No.	Description				Remark
		TRANSISTOR				
Q251	8-729-245-83	TRANSISTOR 2SC2458				
Q281	8-729-245-83	TRANSISTOR 2SC2458				
Q282	8-729-245-83	TRANSISTOR 2SC2458				
Q301	8-729-245-83	TRANSISTOR 2SC2458				
Q302	8-729-245-83	TRANSISTOR 2SC2458				
Q308	8-729-204-83	TRANSISTOR 2SA1048GR				
Q323	8-729-204-83	TRANSISTOR 2SA1048GR				
Q351	8-729-204-83	TRANSISTOR 2SA1048GR				
		RESISTOR				
R201	1-247-879-00	CARBON	100K	5%	1/6W	
R202	1-247-903-00	CARBON	1M	5%	1/6W	
R223	1-247-804-00	CARBON	75	5%	1/6W	
R251	1-247-839-00	CARBON	2.2K	5%	1/6W	
R256	1-247-831-00	CARBON	1K	5%	1/6W	
R259	1-247-799-00	CARBON	47	5%	1/6W	
R260	1-247-855-00	CARBON	10K	5%	1/6W	
R261	1-247-775-00	CARBON	4.7	5%	1/6W	
R267	1-247-871-00	CARBON	47K	5%	1/6W	
R268	1-247-855-00	CARBON	10K	5%	1/6W	
R279	1-247-837-00	CARBON	1.8K	5%	1/6W	
R281	1-247-849-00	CARBON	5.6K	5%	1/6W	
R282	1-247-839-00	CARBON	2.2K	5%	1/6W	
R283	1-247-841-00	CARBON	2.7K	5%	1/6W	
R284	1-247-833-00	CARBON	1.2K	5%	1/6W	
R285	1-247-839-00	CARBON	2.2K	5%	1/6W	
R286	1-247-825-00	CARBON	560	5%	1/6W	
R289	1-247-857-00	CARBON	12K	5%	1/6W	
R290	1-247-852-00	CARBON	7.5K	5%	1/6W	
R291	1-247-847-00	CARBON	4.7K	5%	1/6W	
R301	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
R302	1-247-837-00	CARBON	1.8K	5%	1/6W	
R303	1-247-837-00	CARBON	1.8K	5%	1/6W	
R304	1-247-821-00	CARBON	390	5%	1/6W	
R305	1-247-831-00	CARBON	1K	5%	1/6W	
R306	1-247-847-00	CARBON	4.7K	5%	1/6W	
R307	1-247-823-00	CARBON	470	5%	1/6W	
R308	1-247-863-00	CARBON	22K	5%	1/6W	
R309	1-247-857-00	CARBON	12K	5%	1/6W	
R310	1-247-855-00	CARBON	10K	5%	1/6W	
R311	1-247-863-00	CARBON	22K	5%	1/6W	
R312	1-247-891-00	CARBON	330K	5%	1/6W	
R313	1-247-835-00	CARBON	1.5K	5%	1/6W	
R314	1-247-863-00	CARBON	22K	5%	1/6W	
R315	1-247-865-00	CARBON	27K	5%	1/6W	
R316	1-247-895-00	CARBON	470K	5%	1/6W	
R317	1-247-867-00	CARBON	33K	5%	1/6W	
R318	1-247-863-00	CARBON	22K	5%	1/6W	
R319	1-247-876-00	CARBON	75K	5%	1/6W	
R320	1-247-843-00	CARBON	3.3K	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R321	1-247-879-00	CARBON	100K	5%	1/6W	
R322	1-247-835-00	CARBON	1.5K	5%	1/6W	
R323	1-247-847-00	CARBON	4.7K	5%	1/6W	
R324	1-247-891-00	CARBON	330K	5%	1/6W	
R325	1-247-865-00	CARBON	27K	5%	1/6W	
R326	1-247-865-00	CARBON	27K	5%	1/6W	
R327	1-247-831-00	CARBON	1K	5%	1/6W	
R328	1-247-831-00	CARBON	1K	5%	1/6W	
R329	1-247-841-00	CARBON	2.7K	5%	1/6W	
R329	1-247-845-00	CARBON	3.9K	5%	1/6W	
R330	1-247-841-00	CARBON	2.7K	5%	1/6W	
R331	1-247-865-00	CARBON	27K	5%	1/6W	
R332	1-247-855-00	CARBON	10K	5%	1/6W	
R333	1-247-831-00	CARBON	1K	5%	1/6W	
R334	1-247-815-00	CARBON	220	5%	1/6W	
R335	1-247-823-00	CARBON	470	5%	1/6W	
R336	1-247-807-00	CARBON	100	5%	1/6W	
R337	1-247-857-00	CARBON	12K	5%	1/6W	
R339	1-247-879-00	CARBON	100K	5%	1/6W	
R340	1-247-845-00	CARBON	3.9K	5%	1/6W	
R341	1-247-827-00	CARBON	680	5%	1/6W	
R342	1-247-813-00	CARBON	180	5%	1/6W	
R343	1-247-843-00	CARBON	3.3K	5%	1/6W	
R344	1-247-853-00	CARBON	8.2K	5%	1/6W	
R351	1-247-815-00	CARBON	220	5%	1/6W	
R352	1-247-815-00	CARBON	220	5%	1/6W	
R353	1-247-821-00	CARBON	390	5%	1/6W	
R354	1-247-827-00	CARBON	680	5%	1/6W	
R381	1-247-843-00	CARBON	3.3K	5%	1/6W	
R382	1-247-843-00	CARBON	3.3K	5%	1/6W	
R383	1-247-831-00	CARBON	1K	5%	1/6W	
R413	1-247-815-00	CARBON	220	5%	1/6W	
R414	1-247-853-00	CARBON	8.2K	5%	1/6W	
R415	1-247-815-00	CARBON	220	5%	1/6W	
R416	1-247-853-00	CARBON	8.2K	5%	1/6W	
R417	1-247-879-00	CARBON	100K	5%	1/6W	
R418	1-247-903-00	CARBON	1M	5%	1/6W	
R419	1-247-837-00	CARBON	1.8K	5%	1/6W	
R428	1-247-825-00	CARBON	560	5%	1/6W	
R435	1-247-859-00	CARBON	2.2K	5%	1/6W	
R591	1-247-869-00	CARBON	39K	5%	1/6W	
		VARIABLE RESISTOR				
RV301	1-226-851-00	RES, ADJ, CARBON 10K				
RV302	1-228-766-00	RES, VAR, CARBON 20K				
RV302	1-228-766-00	RES, VAR, CARBON 20K				
RV303	1-226-851-00	RES, ADJ, CARBON 10K				
RV304	1-228-766-00	RES, VAR, CARBON 20K				
RV304	1-228-766-00	RES, VAR, CARBON 20K				
RV305	1-226-853-00	RES, ADJ, CARBON 47K				
RV306	1-228-766-00	RES, VAR, CARBON 20K				

B C2 C1

Ref.No.	Part No.	Description	Remark
RV306	1-228-766-00	RES, VAR, CARBON 20K	
RV307	1-226-848-00	RES, ADJ, CARBON 2.2K	
RV308	1-226-849-00	RES, ADJ, CARBON 3.3K	
RV309	1-226-850-00	RES, ADJ, CARBON 4.7K	
RV351	1-226-846-00	RES, ADJ, CARBON 470	
RV553	1-228-767-00	RES, VAR, CARBON 30K	
RV553	1-228-767-00	RES, VAR, CARBON 30K	
		SWITCH	
S201	1-554-335-00	SWITCH, SLIDE	
S251	1-552-821-00	SWITCH, SLIDE	
		TRANSFORMER	
T303	1-404-146-00	TRANSFORMER	
T304	1-408-532-00	COIL, VARIABLE	
T305	1-408-532-00	COIL, VARIABLE	
T306	1-408-513-00	COIL (VARIABLE)	
T351	1-404-081-00	TRANSFOMER, DELAY ADJUST	
		CRYSTAL	
X301	1-527-345-00	CRYSTAL, OSC	

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♭:	1-607-936-00	C2 BOARD ********	
		CONNECTOR	
C4	♭:1-560-466-00	PIN, CONNECTOR 3P	
		CAPACITOR	
C701	1-102-050-00	CERAMIC 0.01MF 500V	
C702	1-161-753-00	CERAMIC 470PF 10% 3KV	
C703	1-123-026-00	ELECT 2.2MF 160V	
C704	1-102-219-00	CERAMIC 680PF 20% 1KV	
		JACK	
J701	1-509-545-00	SOCKET, CRT MOLD	
		TRANSISTOR	
Q701	8-729-213-12	TRANSISTOR 2SC2230A	
Q702	8-729-213-12	TRANSISTOR 2SC2230A	
Q703	8-729-213-12	TRANSISTOR 2SC2230A	
		RESISTOR	
R701	1-213-158-00	METAL OXIDE 18K 5% 1W	F
R702	1-213-158-00	METAL OXIDE 18K 5% 1W	F
R703	1-213-158-00	METAL OXIDE 18K 5% 1W	F
R704	1-202-581-00	SOLID 2.2K 10% 1/2W	
R705	1-202-581-00	SOLID 2.2K 10% 1/2W	
R706	1-202-581-00	SOLID 2.2K 10% 1/2W	
R707	1-202-603-00	SOLID 18K 10% 1/2W	
R708	1-217-397-00	FUSIBLE 68 5% 1/4W	F
R709	1-202-657-35	SOLID 3.3M 10% 1/2W	
		VARIABLE RESISTOR	
RV701	1-226-659-21	RES, ADJ, METAL GLAZE 7.5M	
		SPARK GAP	
SG701	1-519-063-XX	DISCHARGING GAP	
SG702	1-519-063-XX	DISCHARGING GAP	
SG703	1-519-063-XX	DISCHARGING GAP	
SG704	1-519-063-XX	DISCHARGING GAP	
SG705	1-519-063-XX	DISCHARGING GAP	
		TRANSFORMER	
T701	1-442-071-00	TRANSFORMER, HEATER	

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♭:	1-607-935-00	C1 BOARD ********	
	4-023-455-00	PIECE, CONTACT	
	4-303-203-00	BUSHING	
		CONNECTOR	
C1	1-560-466-00	PIN, CONNECTOR 3P	
C2	♭:1-560-468-00	PIN, CONNECTOR 5P	
C3	1-560-467-00	PIN, CONNECTOR 4P	
		CAPACITOR	
C651	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C652	1-123-321-00	ELECT 220MF 20% 16V	
C653	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C711	1-102-113-00	CERAMIC 390PF 10% 50V	
C712	1-102-113-00	CERAMIC 390PF 10% 50V	
C713	1-102-113-00	CERAMIC 390PF 10% 50V	
C714	1-123-333-00	ELECT 100MF 20% 16V	
C715	1-101-004-00	CERAMIC 0.01MF 50V	
		DIODE	
D651	8-719-911-19	DIODE 1SS119	
D652	8-719-101-89	DIODE RD15E-L2	
D653	8-719-300-45	DIODE EM1Z	
		TRANSISTOR	
Q651	8-729-204-83	TRANSISTOR 2SA1048GR	
Q652	8-729-204-83	TRANSISTOR 2SA1048GR	
Q653	8-729-316-16	TRANSISTOR 2SC1061	
Q654	8-729-316-16	TRANSISTOR 2SC1061	
		RESISTOR	
R651	1-247-859-00	CARBON 15K 5% 1/6W	
R652	1-247-863-00	CARBON 22K 5% 1/6W	
R653	1-212-366-00	METAL OXIDE 3.3 5% 1W	F
R654	1-247-831-00	CARBON 1K 5% 1/6W	

Ref.No.	Part No.	Description				Remark
R655	1-247-803-00	CARBON	68	5%	1/6W	
R656	1-247-795-00	CARBON	33	5%	1/6W	
R657	1-247-787-00	CARBON	15	5%	1/6W	
R658	1-247-795-00	CARBON	33	5%	1/6W	
R659	1-247-863-00	CARBON	22K	5%	1/6W	
R660	1-213-134-00	METAL OXIDE	180	5%	1W	F
R711	1-247-847-00	CARBON	4.7K	5%	1/6W	
R712	1-247-847-00	CARBON	4.7K	5%	1/6W	
R713	1-247-847-00	CARBON	4.7K	5%	1/6W	
R714	1-247-829-00	CARBON	820	5%	1/6W	
R715	1-247-827-00	CARBON	680	5%	1/6W	
R716	1-247-829-00	CARBON	820	5%	1/6W	
R717	1-211-427-00	CARBON	100	5%	1/8W	F
R718	1-247-839-00	CARBON	2.2K	5%	1/6W	

VARIABLE RESISTOR

RV711	1-226-850-00	RES, ADJ, CARBON 4.7K
RV712	1-226-850-00	RES, ADJ, CARBON 4.7K
RV713	1-226-850-00	RES, ADJ, CARBON 4.7K
RV714	1-226-845-00	RES, ADJ, CARBON 330
RV715	1-226-845-00	RES, ADJ, CARBON 330

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♦:1-607-939-00 D1 BOARD
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CAPACITOR

C518	1-123-531-51	ELECT	47MF	20%	100V
C531	1-123-316-00	ELECT	10MF	20%	16V
C575	1-130-352-00	MYLAR	1MF	10%	250V
C576	1-123-669-51	ELECT	33MF	20%	16V
C577	1-123-356-00	ELECT	10MF	20%	16V

CONNECTOR

D1	♦:1-508-916-00	CONNECTOR PIN 2P
D2	♦:1-508-916-00	CONNECTOR PIN 2P
D5	♦:1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P

DIODE

D505	8-719-300-70	DIODE RH-1C
D514	8-719-901-39	DIODE V06J
D515	8-719-901-39	DIODE V06J
D551	8-729-101-31	TRANSISTOR N13T1
D552	8-719-937-06	DIODE EQA01-06S

COIL

L504	1-407-165-XX	MICRO INDUCTOR 47UH
L552	1-459-109-00	COIL, DUST CORE

TRANSISTOR

Q555	8-765-620-00	TRANSISTOR 2SD1015

Ref.No.	Part No.	Description				Remark
R531	1-247-807-00	CARBON	100	5%	1/6W	
R583	1-246-517-00	CARBON	68K	5%	1/4W	
R584	1-247-831-00	CARBON	1K	5%	1/6W	
R585	1-213-131-00	METAL OXIDE	100	5%	1W	F
R586	1-247-859-00	CARBON	15K	5%	1/6W	
R587	1-247-871-00	CARBON	47K	5%	1/6W	

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♦:A-1340-620-A D2 BOARD, COMPLETE
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♦:1-533-146-00 HOLDER, FUSE
♦:4-361-437-00 LID, UPPER, SHIELD CASE, POWER
♦:4-361-438-00 LID, BOTTOM, SHIELD CASE, POWER
♦:4-361-442-00 LID, BOTTOM, SHIELD CASE, (M)
♦:4-361-443-00 CASE (MAIN), SHIELD, POWER

CAPACITOR

C282	1-123-316-00	ELECT	10MF	20%	16V
C283	1-123-382-00	ELECT	3.3MF	20%	50V
C284	1-102-106-00	CERAMIC	100PF	10%	50V
C501	1-106-188-00	MYLAR	0.0047MF	10%	100V
C502	1-123-381-00	ELECT	2.2MF	20%	50V
C503	1-102-820-00	CERAMIC	330PF	5%	50V
C504	1-101-810-00	CERAMIC	100PF	5%	500V
C505	1-123-379-00	ELECT	0.47MF	20%	50V
C506	1-106-212-00	MYLAR	0.047MF	10%	100V
C507	1-123-382-00	ELECT	3.3MF	20%	50V
C508	1-106-210-00	MYLAR	0.039MF	10%	100V
C509	1-130-271-00	FILM	0.033MF	5%	100V
C510	1-130-349-00	MYLAR	0.1MF	10%	100V
C511	1-123-503-00	ELECT	47MF	20%	35V
C512	1-106-172-00	MYLAR	0.001MF	10%	100V
C513	⚠1-130-950-11	FILM	0.0041MF	3%	600V
C514	⚠1-130-950-11	FILM	0.0041MF	3%	600V
C515	⚠1-130-950-11	FILM	0.0041MF	3%	600V
C516	⚠1-130-950-11	FILM	0.0041MF	3%	600V
C517	1-123-356-00	ELECT	10MF	20%	35V
C520	1-106-220-00	MYLAR	0.1MF	10%	100V
C522	1-102-030-00	CERAMIC	330PF	10%	500V
C523	1-123-324-00	ELECT	1000MF	20%	16V
C525	1-123-381-00	ELECT	2.2MF	20%	50V
C526	1-123-381-00	ELECT	2.2MF	20%	50V
C527	1-123-333-00	ELECT	100MF	20%	16V
C528	1-102-038-00	CERAMIC	0.001MF		500V
C529	1-102-038-00	CERAMIC	0.001MF		500V
C551	1-106-208-00	MYLAR	0.033MF	10%	100V
C552	1-106-212-00	MYLAR	0.047MF	10%	100V
C553	1-123-379-00	ELECT	0.47MF	20%	50V
C554	1-131-498-00	TANTALUM	1MF	10%	25V
C555	1-123-316-00	ELECT	10MF	20%	16V
C556	1-131-373-00	TANTALUM	22MF	10%	16V

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

D2

Ref.No.	Part No.	Description			Remark
C557	1-131-373-00	TANTALUM	22MF	10%	16V
C558	1-123-322-00	ELECT	330MF	20%	16V
C559	1-123-483-00	ELECT	47MF	20%	16V
C560	1-106-212-00	MYLAR	0.047MF	10%	100V
C561	1-123-478-51	ELECT	1000MF	20%	10V
C562	1-106-188-00	MYLAR	0.0047MF	10%	100V
C563	1-123-333-00	ELECT	100MF	20%	16V
C564	1-123-379-00	ELECT	0.47MF	20%	50V
C565	1-102-114-00	CERAMIC	470PF	10%	50V
C566	1-102-233-00	CERAMIC	33PF	10%	500V
C567	1-102-116-00	CERAMIC	680P	5%	50V
C569	1-102-116-00	CERAMIC	680PF	10%	50V
C570	1-123-382-00	ELECT	3.3MF	20%	50V
C571	1-123-380-00	ELECT	1MF	20%	50V
C572	1-123-333-00	ELECT	100MF	20%	16V
C573	1-123-316-00	ELECT	10MF	20%	16V
C574	1-106-196-00	MYLAR	0.01MF	10%	100V
C578	1-123-324-00	ELECT	1000MF	20%	16V
C579	1-130-351-00	MYLAR	1MF	10%	100V
C580	1-123-483-00	ELECT	47MF	20%	16V
C581	1-102-038-00	CERAMIC	0.001MF		500V
C621	1-123-318-00	ELECT	33MF	20%	10V
C622	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C623	1-123-503-00	ELECT	47MF	20%	35V
C624	1-123-381-00	ELECT	2.2MF	20%	50V
C625	1-123-379-00	ELECT	0.47MF	20%	50V
C626	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C627	1-101-003-00	CERAMIC	0.0047MF		50V

CONNECTOR

D3	♦:1-508-765-00	3P PLUG (M)	
D4	♦:1-508-796-00	PIN, CONNECTOR 2P	
D5	♦:1-555-706-00	CONNECTOR ASSY (2.5MM) 10P	
D6	♦:1-560-129-00	PLUG, CONNECTOR (2.5MM) 9P	
D7	♦:1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
D8	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
D9	♦:1-560-126-00	PLUG, CONNECTOR (2.5MM PITCH)	

DIODE

D501	8-719-911-19	DIODE 1SS119
D502	8-719-911-19	DIODE 1SS119
D503	8-719-911-19	DIODE 1SS119
D504	8-719-300-76	DIODE RH1A
D506	8-719-300-45	DIODE EM1Z
D507	8-719-300-45	DIODE EM1Z
D508	8-719-300-76	DIODE RH1A
D509	8-719-900-93	DIODE V09C
D511	8-719-911-19	DIODE 1SS119
D512	8-719-911-19	DIODE 1SS119
D513	8-719-900-93	DIODE V09C
D553	8-719-900-93	DIODE V09C
D621	8-719-300-45	DIODE EM1Z
D622	8-719-101-61	DIODE RD6.2E-L2

Ref.No.	Part No.	Description	Remark
D623	8-729-101-31	TRANSISTOR N13T1	
D624	8-719-300-45	DIODE EM1Z	
D625	8-729-101-31	TRANSISTOR N13T1	
D626	8-729-101-31	TRANSISTOR N13T1	
D627 ⚠	8-719-101-89	DIODE RD15E-L2	

IC

IC551	8-759-110-31	IC UPC1031H

COIL

L503	1-459-155-00	COIL (WITH CORE) 45MH
L505	1-407-493-00	MICRO INDUCTOR 1.2MMH
L506	1-407-705-00	MICRO INDUCTOR 100UH
L551	1-408-160-00	MICRO INDUCTOR 15MMH

TRANSISTOR

Q283	8-729-245-83	TRANSISTOR 2SC2458
Q284	8-729-245-83	TRANSISTOR 2SC2458
Q285	8-729-204-83	TRANSISTOR 2SA1048GR
Q501	8-729-204-83	TRANSISTOR 2SA1048GR
Q502	8-729-245-83	TRANSISTOR 2SC2458
Q503	8-729-133-53	TRANSISTOR 2SC2335
Q504	8-729-245-83	TRANSISTOR 2SC2458
Q551	8-729-245-83	TRANSISTOR 2SC2458
Q552	8-729-204-83	TRANSISTOR 2SA1048GR
Q553	8-729-245-83	TRANSISTOR 2SC2458
Q554	8-729-245-83	TRANSISTOR 2SC2458
Q621	8-729-245-83	TRANSISTOR 2SC2458
Q622	8-729-245-83	TRANSISTOR 2SC2458
Q623	8-729-245-83	TRANSISTOR 2SC2458

RESISTOR

R286	1-247-867-00	CARBON	33K	5%	1/6W
R287	1-247-855-00	CARBON	10K	5%	1/6W
R288	1-247-841-00	CARBON	2.7K	5%	1/6W
R289	1-247-835-00	CARBON	1.5K	5%	1/6W
R290	1-247-839-00	CARBON	2.2K	5%	1/6W
R291	1-247-813-00	CARBON	180	5%	1/6W
R292	1-247-871-00	CARBON	47K	5%	1/6W
R293	1-247-891-00	CARBON	330K	5%	1/6W
R294	1-247-837-00	CARBON	1.8K	5%	1/6W
R501	1-247-829-00	CARBON	820	5%	1/6W
R502	1-246-491-00	CARBON	5.6K	5%	1/4W
R503	1-247-855-00	CARBON	10K	5%	1/6W
R504	1-247-851-00	CARBON	6.8K	5%	1/6W
R505	1-247-260-00	CARBON	6.8K	5%	1/2W
R506	1-247-852-00	CARBON	7.5K	5%	1/6W
R507	1-247-871-00	CARBON	47K	5%	1/6W
R508	1-247-829-00	CARBON	820	5%	1/6W

Ref.No.	Part No.	Description				Remark
R509	1-247-835-00	CARBON	1.5K	5%	1/6W	
R510	1-247-867-00	CARBON	33K	5%	1/6W	
R511	1-247-793-00	CARBON	27	5%	1/6W	
R512	1-247-783-00	CARBON	10	5%	1/6W	
R513	1-247-825-00	CARBON	560	5%	1/6W	
R514	1-247-833-00	CARBON	1.2K	5%	1/6W	
R515	1-206-660-00	METAL OXIDE	680	5%	2W	F
R516	1-247-839-00	CARBON	2.2K	5%	1/6W	
R517	1-247-857-00	CARBON	12K	5%	1/6W	
R518	1-212-861-11	FUSIBLE	15	5%	1/4W	F
R520	1-247-881-00	CARBON	120K	5%	1/6W	
R521	1-247-866-00	CARBON	30K	5%	1/6W	
R522	1-247-100-00	CARBON	51	5%	1/4W	
R523	1-247-091-00	CARBON	22	5%	1/4W	
R524	1-247-083-00	CARBON	10	5%	1/4W	
R525	1-247-107-00	CARBON	100	5%	1/4W	
R526	1-247-100-00	CARBON	51	5%	1/4W	
R527	1-246-434-00	CARBON	24	5%	1/4W	
R528	1-247-871-00	CARBON	47K	5%	1/6W	
R529	1-247-871-00	CARBON	47K	5%	1/6W	
R530	1-247-855-00	CARBON	10K	5%	1/6W	
R549	1-206-660-00	METAL OXIDE	680	5%	2W	F
R551	1-247-853-00	CARBON	8.2K	5%	1/6W	
R552	1-247-845-00	CARBON	3.9K	5%	1/6W	
R553	1-247-841-00	CARBON	2.7K	5%	1/6W	
R554	1-247-859-00	CARBON	15K	5%	1/6W	
R556	1-247-895-00	CARBON	470K	5%	1/6W	
R557	1-247-821-00	CARBON	390	5%	1/6W	
R558	1-212-366-00	METAL OXIDE	3.3	5%	1W	F
R559	1-211-427-00	CARBON	100	5%	1/8W	F
R560	1-247-841-00	CARBON	2.7K	5%	1/6W	
R561	1-247-849-00	CARBON	5.6K	5%	1/6W	
R562	1-247-849-00	CARBON	5.6K	5%	1/6W	
R563	1-247-855-00	CARBON	10K	5%	1/6W	
R564	1-247-855-00	CARBON	10K	5%	1/6W	
R565	1-247-839-00	CARBON	2.2K	5%	1/6W	
R566	1-247-873-00	CARBON	56K	5%	1/6W	
R567	1-247-845-00	CARBON	3.9K	5%	1/6W	
R568	1-247-845-00	CARBON	3.9K	5%	1/6W	
R569	1-247-853-00	CARBON	8.2K	5%	1/6W	
R570	1-247-851-00	CARBON	6.8K	5%	1/6W	
R571	1-247-859-00	CARBON	15K	5%	1/6W	
R572	1-247-835-00	CARBON	1.5K	5%	1/6W	
R573	1-247-804-00	CARBON	75	5%	1/6W	
R574	1-247-847-00	CARBON	4.7K	5%	1/6W	
R575	1-247-877-00	CARBON	82K	5%	1/6W	
R576	1-247-849-00	CARBON	5.6K	5%	1/6W	
R577	1-247-841-00	CARBON	2.7K	5%	1/6W	
R578	1-247-783-00	CARBON	10	5%	1/6W	
R579	1-247-845-00	CARBON	3.9K	5%	1/6W	
R580	1-247-838-00	CARBON	2K	5%	1/6W	
R581	1-247-849-00	CARBON	5.6K	5%	1/6W	
R582	1-247-841-00	CARBON	2.7K	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R588	1-213-135-00	METAL OXIDE	220	5%	1W	F
R620	1-213-145-00	METAL OXIDE	1.5K	5%	1W	F
R621	1-247-863-00	CARBON	22K	5%	1/6W	
R622	1-247-867-00	CARBON	33K	5%	1/6W	
R623	1-247-867-00	CARBON	33K	5%	1/6W	
R624	1-247-877-00	CARBON	82K	5%	1/6W	
R625	1-247-881-00	CARBON	120K	5%	1/6W	
R626	1-247-879-00	CARBON	100K	5%	1/6W	
R627	1-247-831-00	CARBON	1K	5%	1/6W	
R628	1-247-847-00	CARBON	4.7K	5%	1/6W	
R629	1-247-867-00	CARBON	33K	5%	1/6W	
R630	1-247-867-00	CARBON	33K	5%	1/6W	
R631	1-247-867-00	CARBON	33K	5%	1/6W	
R632	1-247-855-00	CARBON	10K	5%	1/6W	
R633	1-247-879-00	CARBON	100K	5%	1/6W	
R634	1-247-859-00	CARBON	15K	5%	1/6W	
R635	1-215-461-00	METAL FILM	47K	1%	1/6W	
R636 ⚠	1-215-459-31	METAL	39K	1%	1/6W	

VARIABLE RESISTOR

RV551	1-226-851-00	RES, ADJ, CARBON	10K
RV552	1-226-847-00	RES, ADJ, CARBON	1K
RV554	1-226-852-00	RES, ADJ, CARBON	22K
RV555	1-226-851-00	RES, ADJ, CARBON	10K
RV621	1-226-853-00	RES, ADJ, CARBON	47K

TRANSFORMER

T501	1-437-082-00	HDT
T551 ⚠	1-421-552-11	TRANSFORMER, STRAIN CORRECTION

****

★: 1-607-941-00 D3 BOARD
****

COIL

L501	1-405-760-00	COIL, OSC

****

★: A-1301-578-A M BOARD, COMPLETE
****

CAPACITOR

C601	1-106-190-00	MYLAR	0.0056MF	10%	100V
C602	1-102-074-00	CERAMIC	0.001MF	10%	50V
C603	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C604	1-123-380-00	ELECT	1MF	20%	50V
C605	1-102-074-00	CERAMIC	0.001MF	10%	50V
C606	1-123-349-00	ELECT	1000MF	20%	35V
C607	1-102-074-00	CERAMIC	0.001MF	10%	50V
C608	1-123-346-00	ELECT	220MF	20%	35V
C609	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C610	1-102-074-00	CERAMIC	0.001MF	10%	50V

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

M J1 EJ X3

Ref.No.	Part No.	Description				Remark
C611	1-123-346-00	ELECT	220MF	20%	35V	
C612	1-101-004-00	CERAMIC	0.01MF		50V	
		DIODE				
D601	⚠ 8-719-101-61	DIODE RD6.2E-L2				
D603	8-719-982-04	DIODE ERB81-004				
D604	8-719-911-55	DIODE U05G				
D605	8-719-911-19	DIODE 1SS119				
D606	8-719-911-19	DIODE 1SS119				
		COIL				
L601	1-407-364-00	COIL, SPOOK CHOKE				
L602	1-407-365-00	COIL, CHOKE				
L603	1-421-378-00	COIL, FERRITE CHOKE				
L604	1-407-780-00	COIL, SPOOK CHOKE				
L605	1-407-780-00	COIL, SPOOK CHOKE				
		TRANSISTOR				
Q601	8-729-245-83	TRANSISTOR 2SC2458				
Q602	8-729-245-83	TRANSISTOR 2SC2458				
Q603	8-729-245-83	TRANSISTOR 2SC2458				
Q604	8-729-204-83	TRANSISTOR 2SA1048GR				
Q605	8-729-245-83	TRANSISTOR 2SC2458				
Q606	8-729-133-40	TRANSISTOR 2SC2334				
		RESISTOR				
R601	⚠ 1-215-453-31	METAL	22K	1%	1/6W	
R602	⚠ 1-215-441-31	METAL	6.8K	1%	1/6W	
R603	1-247-863-00	CARBON	22K	5%	1/6W	
R604	1-247-859-00	CARBON	15K	5%	1/6W	
R605	1-247-855-00	CARBON	10K	5%	1/6W	
R606	1-247-847-00	CARBON	4.7K	5%	1/6W	
R607	1-247-859-00	CARBON	15K	5%	1/6W	
R608	1-247-851-00	CARBON	6.8K	5%	1/6W	
R609	1-247-851-00	CARBON	6.8K	5%	1/6W	
R610	1-247-851-00	CARBON	6.8K	5%	1/6W	
R611	1-247-839-00	CARBON	2.2K	5%	1/6W	
R612	1-213-146-00	METAL OXIDE	1.8K	5%	1W	F
R613	1-247-807-00	CARBON	100	5%	1/6W	
R614	1-213-146-00	METAL OXIDE	1.8K	5%	1W	F
R615	⚠ 1-247-897-31	CARBON	560K	5%	1/6W	
		VARIABLE RESISTOR				
RV601	⚠ 1-226-847-11	RES, ADJ, CARBON 1K				
RV602	1-226-848-00	RES, ADJ, CARBON 2.2K				
		SWITCH				
S602	1-554-252-00	SWITCH, SLIDE (AC POWER)				
		TRANSFORMER				
T601	1-437-081-00	TRANSFORMER, CDT				

Ref.No.	Part No.	Description				Remark
		FUSE				
F602	⚠ 1-532-066-11	FUSE, TIME-LAG 125V/0.4A				
F604	⚠ 1-532-078-11	FUSE, TIME-LAG 125V/1A				
		**********				
		CONNECTOR				
C2	★ 1-555-916-00	CONNECTOR ASSY (2.0MM) 5P				
X2	★ 1-556-323-00	CONNECTOR ASSY (2.5MM) 6P				
		**********				
	★ 1-607-943-00	J1 BOARD				
		********				
	★ 4-361-446-00	HOLDER, LED				
		DIODE				
D151	8-719-812-41	DIODE TLR124				
D152	8-719-812-43	DIODE TLG124A				
		VARIABLE RESISTOR				
RV251	1-228-350-00	RES, VAR, SLIDE 20K				
		**********				
	★ 1-607-932-00	EJ BOARD				
		********				
		JACK				
J254	1-507-569-00	JACK, EARPHONE				
		RESISTOR				
R269	1-247-811-00	CARBON	150	5%	1/6W	
		**********				
	★ 1-608-278-00	X3 BOARD				
		********				
	★ 1-533-146-00	HOLDER, FUSE				
	★ 3-701-948-17	LABEL, FUSE				
		FUSE				
F601	⚠ 1-532-203-11	FUSE, TIME-LAG 125V/2A				
F603	⚠ 1-532-203-11	FUSE, TIME-LAG 125V/2A				
		RESISTOR				
R637	1-247-879-00	CARBON	100K	5%	1/6W	
		CONNECTOR				
X1	★ 1-560-460-00	PIN, CONNECTOR 4P				
X2	★ 1-560-278-00	PLUG, CONNECTOR 6P				
X3	1-560-462-00	PIN, CONNECTOR 6P				

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description		Remark
	♦:1-607-937-00	X1 BOARD		
		********		
		SWITCH		
S601	1-554-253-00	SWITCH, PUSH (POWER SWITCH)		
		**********		
	♦:1-607-931-00	X2 BOARD		
		********		
		CAPACITOR		
C613	1-101-003-00	CERAMIC	0.0047MF	50V
		JACK		
J601	1-507-563-21	JACK, DC		
		**********		
		MISCELLANEOUS		
		**********		
	⚠1-228-776-11	RESISTOR ASSY, HIGH-VOLTAGE		
	1-452-032-00	MAGNET, DISK; 10MM ϕ		
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ		
	1-452-126-11	MAGNET		
	1-452-192-00	MAGNET, CORRECT BMC		
	♦:1-555-914-00	CONNECTOR ASSY (2.0MM) 6P		
	♦:1-555-920-00	CONNECTOR ASSY (2.0MM) 4P		
	♦:1-555-961-00	CONNECTOR ASSY (2.5MM) 2P		
	♦:1-556-323-00	CONNECTOR ASSY (2.5MM) 6P		
	♦:1-556-331-00	CONNECTOR ASSY (2.5MM) 3P		
L901	⚠1-451-177-21	DEFLECTION YOKE (SY-59E)		
L902	⚠1-426-023-21	COIL, DEGAUSS		
L903	⚠1-426-023-21	COIL, DEGAUSS		
SP901	1-502-703-00	SPEAKER		
T502	⚠1-439-299-11	TRANSFORMER ASSY, FLYBACK		
V901	⚠8-735-102-05	CRT (A13JHH00X)		

ACCESSORIES AND PACKING MATERIALS
****

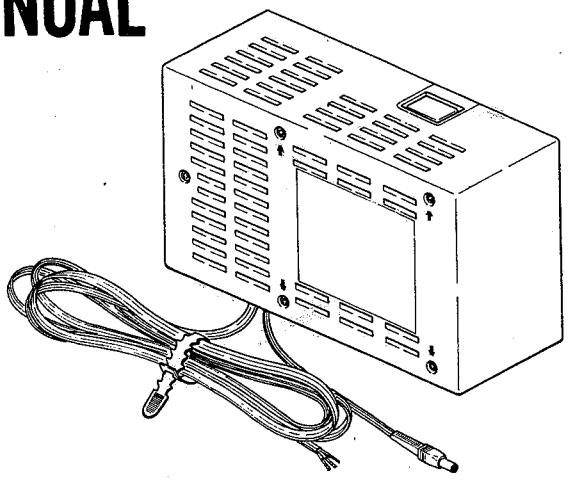
Part No.	Description	Remark
A-1009-189-A	ADAPTOR(MAIN)COMPLETEASSY, AC	(AC-1200)
1-504-059-11	MAGNETIC EARPHONE(ME-20H)	
3-701-625-00	BAG, POLYETHYLENE	
4-493-973-11	MANUAL, INSTRUCTION	
4-309-407-00	BAG, POLYETHYLENE	
4-361-462-00	CUSHION (UPPER) (ASSY)	
4-361-463-00	CUSHION (LOWER) (ASSY)	
4-371-911-01	INDIVIDUAL CARTON	
♦:4-025-191-00	COVER, INSULATING, SWITCH	

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

AC-1200

SERVICE MANUAL



June, 1984

SPECIFICATIONS

Refer to specifications on cover.

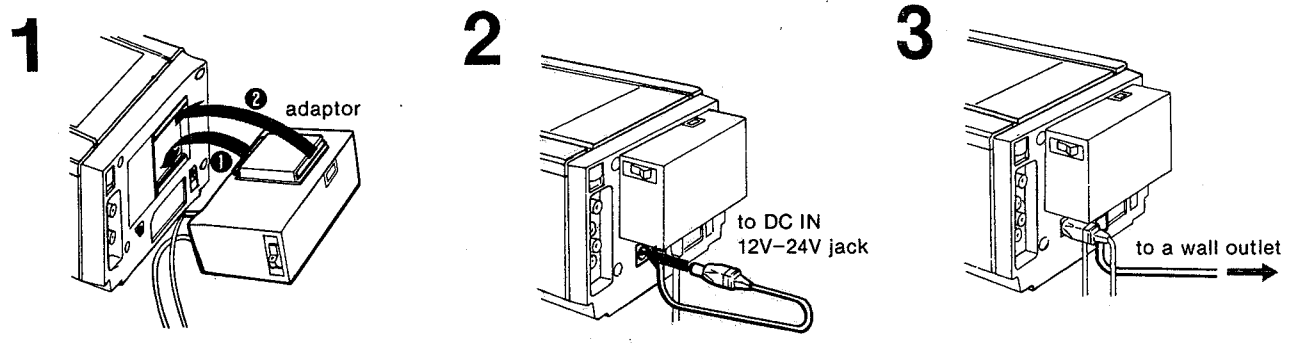
AC POWER ADAPTOR

SONY®

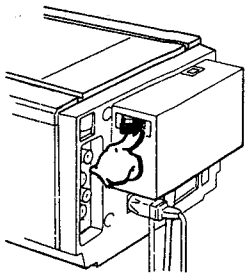
1. POWER SOURCE

FOR HOUSE CURRENT OPERATION

Attach the supplied ac power adaptor and connect the dc and ac (mains) cords.

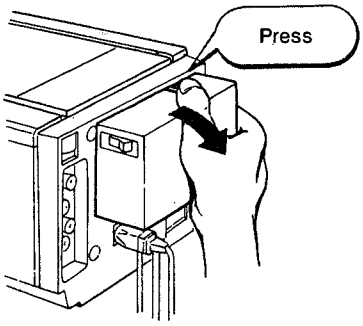


4 Set the POWER switch on the adaptor to "I" to turn on the power.



Keep the POWER switch on the adaptor set at "I" to turn the monitor on or off with the POWER switch on the monitor. The POWER switch on the monitor does not turn off the ac power adaptor.
If the set is not to be used for an extended period of time, set the POWER switch on the adaptor to "0" to turn the power off.

Removing the ac power adaptor



Note
Use only an ac power adaptor manufactured by Sony. The polarity of the plugs of other manufacturers may be different.

Notice for the customers in the United Kingdom

WARNING
THIS APPARATUS MUST BE EARTHED

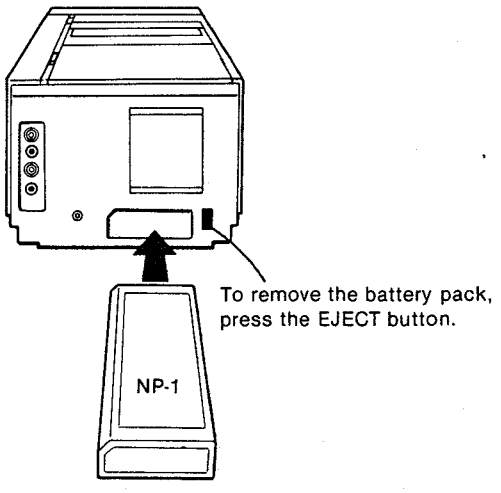
IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow	: Earth
Blue	: Neutral
Brown	: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow. The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L of coloured red.

FOR RECHARGEABLE BATTERY PACK OPERATION

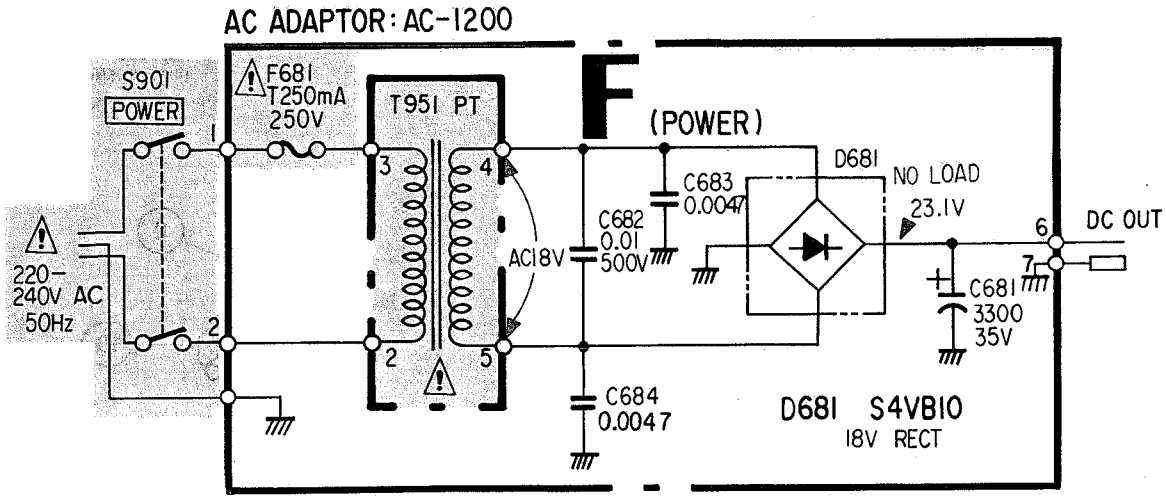
Insert the Sony NP-1 battery pack (optional) into the BATTERY compartment.



Note
Make sure that the ac power adaptor or the car battery cord is disconnected from the monitor. Otherwise, the set cannot be operated on the battery pack.

AFTER EACH USE, BE SURE TO RECHARGE THE BATTERY PACK.

2. SCHEMATIC DIAGRAM



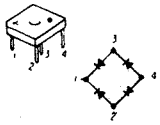
Note:

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics.
- Voltages are dc with respect to ground unless otherwise noted.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

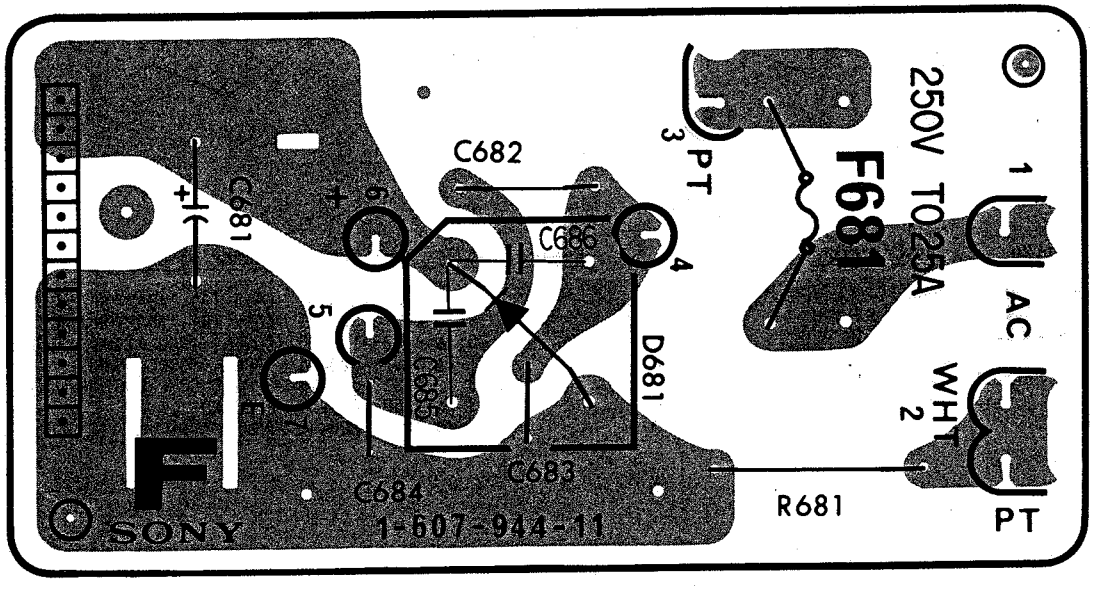
S4VB10
S4VB20
S4VB40



3. PRINTED WIRING BOARD

– Conductor Side –

– F Board –



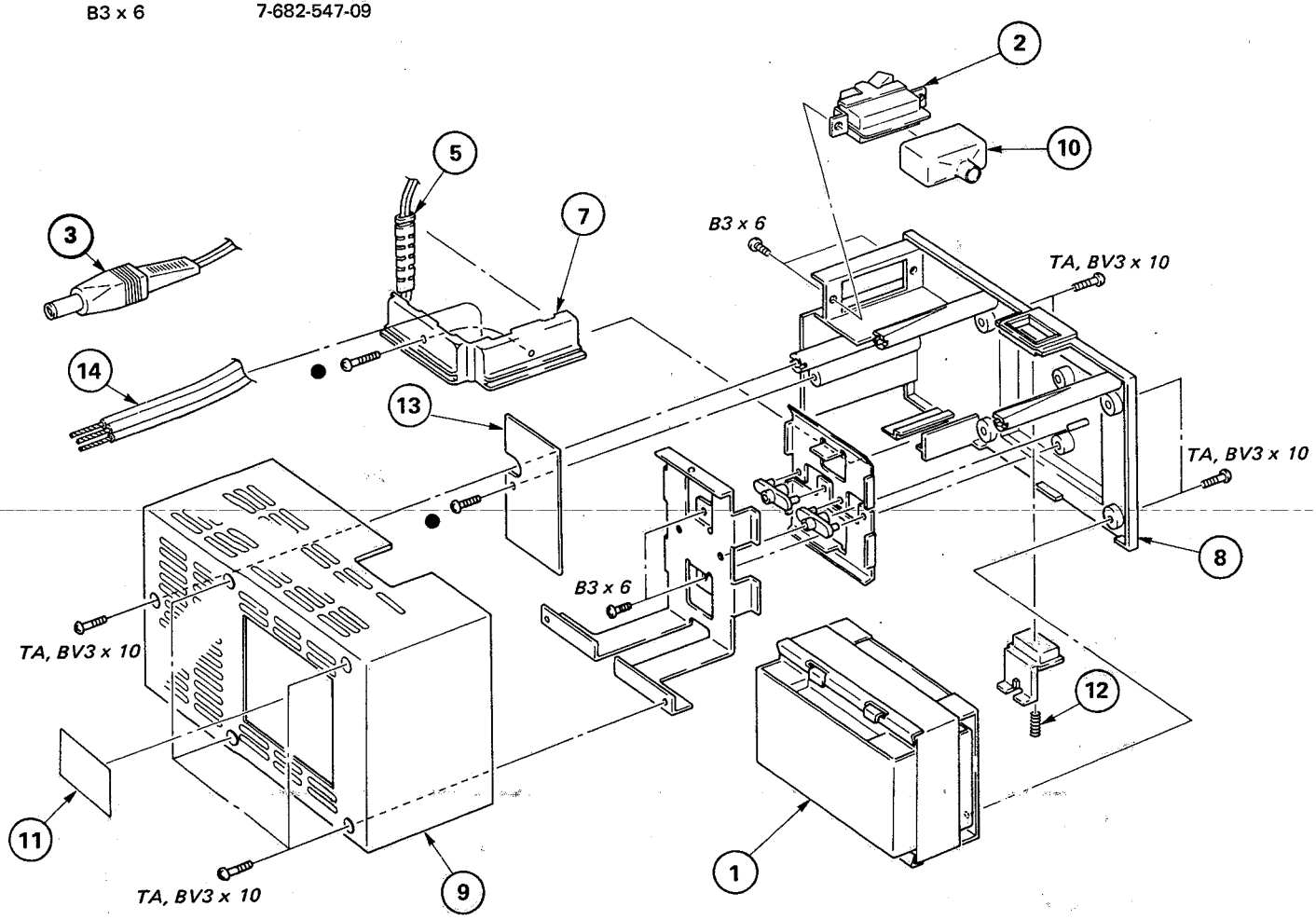
4. EXPLODED VIEW

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

● : TA, BV3 x 12 7-685-648-71
TA, BV3 x 10 7-685-647-79
B3 x 6 7-682-547-09



No	Part No	Description	Remark
1	⚠1-447-450-00	TRANSFORMER, POWER	
2	⚠1-516-379-00	SEESAW SWITCH	
3	⚠1-555-307-21	CORD, WITH PLUG	
5	2-098-510-01	BUSHING, CODE	
7	4-371-909-01	CLAMP, CABLE	

No.	Part No	Description	Remark
8	2-370-326-01	CASE (A), ADAPTOR, AC	
9	2-370-327-21	CASE (B), ADAPTOR, AC	
10	♦:4-025-191-00	COVER, INSULATING, SWITCH	
11	♦:4-371-903-01	LABEL, MODEL NUMBER	
12	4-812-546-01	SPRING COMPRESSION, (B)	
13	♦:1-607-944-00	F BOARD	
14	⚠1-534-820-13	POWER CORD	

5. ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

• Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μF, PF : μμF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μH

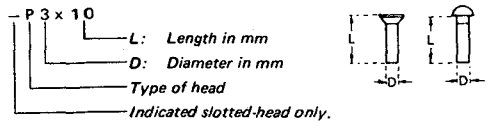
Ref.No.	Part No.	Description			Remark
♦	1-607-944-00	F BOARD *******			
♦	1-533-146-00	HOLDER, FUSE			
♦	3-701-948-08	LABEL, FUSE			
		CAPACITOR			
C681	1-123-736-00	ELECT	3300MF	20%	35V
C682	1-106-220-00	MYLAR	0.1MF	10%	100V
C683	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C684	1-102-125-00	CERAMIC	0.0047MF	10%	50V
		DIODE			
D681	8-719-504-10	DIODE S4VB10			
		FUSE			
F681	⚠ 1-532-614-11	FUSE, TIME-LAG 250V/T0.25A			
**********					
		MISCELLANEOUS **********			
	⚠ 1-447-450-11	TRANSFORMER, POWER			
	⚠ 1-534-820-13	POWER CORD (UK ONLY)			
T951	⚠ 1-555-307-21	CORD, WITH PLUG (AEP ONLY)			
S901	⚠ 1-516-379-11	SWITCH, SEESAW			
**********					

ACCESSORIES AND PACKING METERIALS
****

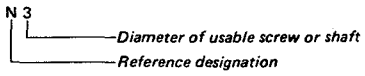
Part No.	Description	Remark
3-546-434-00	BAG, POLYETHYLEN	

HARDWARE NOMENCLATURE

Screw:



Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
		SCREWS	
P		pan-head screw	binding-head (B) screw for *replacement*
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	*binding-head (B) screw and* spring and flat washers for replacement
R		*round-head screw*	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		*binding-head screw*	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazier-head screw	

Reference Designation	Shape	Description	Remarks
		SELF-TAPPING SCREWS	
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
		SET SCREWS	
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
		NUT	
N		nut	
		WASHERS	
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E		retaining ring	
G		grip-type retaining ring	

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